

19990617.qrp v01_n491.qrl.990617

Date: Thu, 17 Jun 1999 19:03:23 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1491

QRP-L Digest 1491

Topics covered in this issue include:

- 1) [42925] Crystal Oscillator Quiz Time
by "Chuck Adams K5F0" <adams@ticnet.com>
- 2) [42926] Re: Good Shop Magnifier Lamp
by "Tim Billingsley, KD5CKP" <kd5ckp@qsl.net>
- 3) [42927] LDG's Virtual Bird... NEW !!
by "Radman" <radman@best.com>
- 4) [42928] FO0CPA
by Jay Freeman <jayFreem@direcpc.com>
- 5) [42929] Elecraft K2 ??
by "Lawrence T. Owens" <w4dec@dibbs.net>
- 6) [42930] QSL card stock
by "Don Wilhelm" <w3fpr@arrl.net>
- 7) [42931] Re: SIX-METER QRP
by Wayne Alexander <walexan@ipa.net>
- 8) [42932] Re: Tuna Tin 2
by Tom Bowman <tbowman@nbn.net>
- 9) [42933] Re: Xtal Checker
by mjfitz@uswest.net
- 10) [42934] Friday Crowd at Tanner Electronics
by "Chuck Adams K5F0" <adams@ticnet.com>
- 11) [42935] RE: Elecraft K2 ??
by "Steve/n0tu" <n0tu@webaccess.net>
- 12) [42936] Re: Homebrew QSLs
by Wa2eaw@aol.com
- 13) [42937] SWAP !
by K4NK@aol.com
- 14) [42938] TT2 Problem
by Ken Freedman <n1qqv@cshore.com>
- 15) [42939] WTB pixie kit
by K4NK@aol.com
- 16) [42940] Xtal Bible
by W0rw@kktv.com
- 17) [42941] RE: FO0CPA
by "Alex Mendelsohn" <ai2q@ispchannel.com>
- 18) [42942] Re: The Yankees Are Coming, The Yankees Are Coming!!!
by Richard Arland <k7sz@epix.net>
- 19) [42943] remove

- by "William Phinizy" <k6whp@gte.net>
- 20) [42944] GINPOLE ?(not qrp)
by Roy Lincoln <wa4dou@usa.net>
- 21) [42945] Re: F00CPA and 15 meter DX
by Charles Kadesch <chas@digizen.net>
- 22) [42946] Re: F00CPA
by Jay Freeman <jayFreem@direcpc.com>
- 23) [42947] Address Change
by Martin J Lynch <ka1lxg@juno.com>
- 24) [42948] Re: More JFET SPICE Models
by Thomas Kuehl <ac7a@uswest.net>
- 25) [42949] vendors
by Tim Pettibone <tpettibo@NMSU.Edu>
- 26) [42950] SPICE Models
by "Chuck Adams K5F0" <adams@ticnet.com>
- 27) [42951] FS:Ten Tec 1340
by Kb4utv@aol.com
- 28) [42952] Re: Silver Mica cap dilemma
by "David D. Meacham" <ddm@datatamers.com>
- 29) [42953] Re: Astronauts and QRP
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 30) [42954] KF4KSM blown away by K8FF's NC20
by Macstein@aol.com
- 31) [42955] Sergio's Boards Received
by Ken Newman <N2CQ@citnet.com>
- 32) [42956] Re: OHR WM-2 Wattmeter
by "Art Neilson, KH7PZ" <art@hawaii.rr.com>
- 33) [42957] Thanks:
by "Lawrence T. Owens" <w4dec@dibbs.net>
- 34) [42958] 6m QRP? - Try UKSMG
by Andris Neimers <VitalVoice@compuserve.com>
- 35) [42959] Next stop: Ft. Tuthill
by "Paul Harden, NA5N" <na5n@rt66.com>
- 36) [42960] SGC 2020
by Lagier Gerard <Gerard.Lagier@cnes.fr>
- 37) [42961] Re: More JFET SPICE Models
by Bruce Kizerian <kizerian@ced.utah.edu>
- 38) [42962] copper laminate...
by sergio <sruiz@bright.net>
- 39) [42963] Dummy Load Night
by "Tom Moll" <tomm@xata.com>
- 40) [42964] Re: Dummy Load Night
by "Don Chisholm WX3M" <dchishol@oakland.edu>
- 41) [42965] RE: Silver Mica cap dilemma
by "Michael St. Angelo" <mstangelo@worldnet.att.net>
- 42) [42966] Re: Dummy Load Night
by wd8civ@att.net
- 43) [42967] Re: Elecraft K2 ??

by John Evans - N0HJ <jaevans@codenet.net>
44) [42968] copper clad international..
by sergio <sruiz@bright.net>
45) [42969] Toroid colors/qualities question & antenna tuner notes
by Nils R Young <nilsbull@juno.com>
46) [42970] RE: Reflex Receiver Circuits
by Larry East <w1hue@amsat.org>
47) [42971] what to do
by Kyle Lusk <klusk@bhmvending.com>
48) [42972] Silver Micas
by Bruce Kizerian <kizerian@ced.utah.edu>
49) [42973] FS: MFJ-249 SWR Analyzer
by Tim Ahrens <tahrens@hilconet.com>
50) [42974] Re: OHR WM-2 Wattmeter
by Larry East <w1hue@amsat.org>
51) [42975] Re: Six Meter QRPers
by SKIPNC90@aol.com
52) [42976] Re: Crystal Oscillator Quiz Time
by SKIPNC90@aol.com
53) [42977] FOLDED MONOPOLE
by ARDUJENSKI@aol.com
54) [42978] Re: OHR WM-2 Wattmeter
by "INT0,N" <ninto1@neo.rr.com>
55) [42979] Re: Next stop: Ft. Tuthill
by Jerry Haigwood <w5jh@swlink.net>
56) [42980] Re: Dummy Load Night
by "INT0,N" <ninto1@neo.rr.com>
57) [42981] Dummy Load Nite
by hamjoel@juno.com
58) [42982] Shearer
by "Ian C. Purdie" <purdic@integritynet.com.au>
59) [42983]
by Tayloe Dan-P26412 <Dan_Tayloe-P26412@email.mot.com>
60) [42984] Re: Silver Micas
by Chris Trask <ctrask@primenet.com>
61) [42985] Treasure or Trash : old transistors from the archives
by Allan G Taylor <k7gt@qsl.net>
62) [42986] Outa Here!
by Larry East <w1hue@amsat.org>
63) [42987] Re: Dummy Load Nite
by "George T. Baker" <w5yr@swbell.net>
64) [42988] Re: OHR WM-2 Wattmeter
by "George T. Baker" <w5yr@swbell.net>
65) [42989] Re: Reflex Receiver Circuits
by "George T. Baker" <w5yr@swbell.net>
66) [42990] Re: Crystal Oscillator Quiz Time
by "Chuck Adams K5FO" <adams@ticnet.com>
67) [42991] Re: Dummy Load Night

by DNT1@chrysler.com

68) [42992] Fireball Run Logs: Last call
by Ken Newman <N2CQ@citnet.com>

69) [42993] Spice Models, Voltage Calibration, and uPC1651G
by "Chuck Adams K5FO" <adams@ticnet.com>

70) [42994] Re: Treasure or Trash : old transistors from the archives
by Tim Ahrens <tahrens@hilconet.com>

71) [42995] Re:FS:MFJ-249
by Tim Ahrens <tahrens@hilconet.com>

72) [42996] Re: Next stop: Ft. Tuthill
by "Steven Weber" <kd1jv@moose.ncia.net>

73) [42997] Re: Tuna Tin 2
by Chris Cartwright Sr <ccart@phideaux.com>

74) [42998] MFJ headset
by Scott Howell <whowell@hq.nasa.gov>

75) [42999] AR QRP Net results
by Robsparks@aol.com

76) [43000] Timing is Everything
by Jeff Davis <jeff@jehosophat.com>

77) [43001] Re: OHR WM-2 Wattmeter
by "Art Neilson, KH7PZ" <art@hawaii.rr.com>

78) [43002] IC737 CW filters
by Niel Skousen <nskousen@scientech.com>

79) [43003] Re: Six Meter QRPers
by "Chuck Carpenter" <w5usj@globeco.net>

80) [43004] Seeking Comments on the MFJ-9420
by Dan Hanson KQ6YI <kq6yi@hotmail.com>

81) [43005] I got the pox!
by David J Adams <adamsclan@netgate.net>

82) [43006] Tuna-Tin 2
by "KA5T Larry Wise" <lewise@inetport.com>

83) [43007] Re: FOLDED MONOPOLE
by "dor" <elbc@pivot.net>

84) [43008] code practice..
by sergio <sruiz@bright.net>

85) [43009] Re: Tuna-Tin 2
by James Skalski <jskalski@localnet.com>

86) [43010] Thank you
by "K. Babcock, N8WVD" <casey@mufn.org>

87) [43011] Update W/R side by side beam
by hamjoel@juno.com

88) [43012] 2N2/40 QSO
by Theodore Wong <wong_th@eng.printronix.com>

89) [43013] Re: FOLDED MONOPOLE
by Karl.Kanalz@optelinc.com

90) [43014] Re: FOLDED MONOPOLE
by ARDUJENSKI@aol.com

91) [43015] FS: Splitting uo Triton Station

- by "Tim Cook" <timcook@erinet.com>
- 92) [43016] K9LU Bulldog Paddle
by "Kory Hamzeh" <kory@avatar.com>
- 93) [43017] Suggestions Needed
by Jim Ek <JIM-EK@worldnet.att.net>
- 94) [43018] Re: code practice..
by Ron Stark <ku7y@dri.edu>
- 95) [43019] Super Magnum SLV for FD
by "Mike W. Burger" <mike@gold.chem.hawaii.edu>
- 96) [43020] Regen RX Using Q-multiplier Principle
by George F Franklin <w0av@juno.com>

Date: Wed, 16 Jun 1999 17:37:28 -0500
From: "Chuck Adams K5FO" <adams@ticnet.com>
To: qrp-l@lehigh.edu
Subject: [42925] Crystal Oscillator Quiz Time
Message-ID: <E10uNDf-0005Lw-00@pop3.ticnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Gang,

OK, in order to further the value of a crystal tester which does nothing more than tell you whether the crystal will oscillate in the circuit that makes up the tester how about adding an relative output circuit with a cheap 250uA or 500uA meter that gives a relative indication of the activity of the crystal?

1. Do this and write it for this group and at least one publication like QQ, QRPP, QST, etc. Be famous.
2. Improve on the basic circuit.
3. Find the best circuit to give you the series resonant frequency of the crystal.

It's all been done but you haven't seen it most likely and the information needs to be revived

and circulated again to the large number of new hams in the population at large. IMHO. Hard to find out of print materials these days.

FYI and the starting gate is now open....

Chuck Adams K5FO adams@ticnet.com <http://www.qsl.net/k5fo/>

Date: Wed, 16 Jun 1999 18:28:52 -0500
From: "Tim Billingsley, KD5CKP" <kd5ckp@qsl.net>
To: <qrp-l@lehigh.edu>
Subject: [42926] Re: Good Shop Magnifier Lamp
Message-ID: <003c01beb850\$01bb5020\$bbc2d6d1@kd5ckp>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

<http://www.dazor.com/dazor/catalog/stretch.html>

I have 2 of these and I use them regularly.

73
Tim, KD5CKP
<http://www.qsl.net/kd5ckp/>

Date: Wed, 16 Jun 1999 16:48:43 -0700
From: "Radman" <radman@best.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42927] LDG's Virtual Bird... NEW !!
Message-ID: <199906162347.QAA22384@proxy4.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

LDG's "Virtual Bird" Digital Watt Meter

by Conrad Weiss -- NN6CW

LDG Electronics has just launched a clever new kit product

-- a digital watt meter that emulates a Bird 43. Dubbed the DWM-4, for 4-channel digital watt meter -- the pint-sized wonder boasts a gorgeous green, 2-line LCD display that displays forward power, reflected power, SWR and channel number -- simultaneously! The DWM-4 is designed to mount in a central location of your station and dispense with all those other power meters and SWR bridges connected to each rig. The LDG scheme employs up to four RF "remote sensors" that are inserted in-line with your various rigs. A three foot data line, with end-molded eighth-inch stereo plugs, carries the data from the sensors to the DWM-4. From the front panel of the meter you can select any rig in your station and monitor its output parameters.

System Overview: the DWM-4 utilizes the popular Motorola MC68HC11E9FN microprocessor and the software is written in assembly language. When the DWM-4 is initially calibrated, a precise power measurement from an instrument such as the Bird 43, is used as a reference to build a look-up table in the DWM-4's microprocessor. There are two power ranges: 0-15 watts and 0-150 watts. The look-up table interpolates 256 values for each of the two power ranges and stores them in the microprocessor. Once the unit is calibrated, it will "report" the same power reading the Bird 43 would indicate -- accurate to 0.1% -- subject to how carefully the builder calibrates the meter. The menu allows selection of bar or numerical display for forward and reflected power. SWR is represented numerically (e.g. 1.4 -- the full ratio of 1.4:1 is not displayed -- only the primary number.)

Feature Rich: from the main menu on the DWM-4, you can set up each "channel" to your liking. You can have four HF channels, four VHF/UHF channels, or any combination. Any channel can be set to high or low power level. However, you must buy the appropriate sensor (HF or VHF/UHF) for your channels. Programming the channels is a breeze -- very intuitive! You toggle through the menu selections and make your choices: numerical or bar data, peak or average power, Hi-SWR alarm threshold and cut-off relay threshold. The Hi-SWR alarm is a prominent yellow LED alert signaling that you've exceeded your threshold value. It will not go unnoticed !

Inside the Box: the uP board measures 3.5" x 4.0." There are two boards on the front panel: LED display and switch/menu interface. There is no point-to-point wiring,

however there are two short ribbon cables that interconnect the front panel headers to the micro board. There's plenty of elbow room inside the enclosure and construction looks very simple. I received the review unit pre-built, thus I can't comment on the instruction set. LDG advises that it will take 2-3 hours to construct the DWM-4. The remote sensors are simple 4.0" x 2.0" boards with a handful of components and two SO-239s.

Test Drive: I used the DWM-4 with a number of rigs with excellent results. I happened to start testing with an OHR-400. It was very confidence inspiring to gradually increase the power of the OHR in 0.10 watt increments all the way up to 10 watts on 40 meters. Running into a dummy load the SWR sat right on 1.0 the whole time. I compared readings with my Diamond meters, and the power readings were right on the mark. Since I don't own a Bird 43 I couldn't perform the obvious test ;)

Price: the DWM-4 with one sensor sells for US\$89. The same boards with the enclosure kits cost US\$139. Additional sensors can be purchased for US\$19 each.

Bottom line: the DWM-4 is a compact, extremely attractive piece of equipment for the QRP'er with multiple rigs and VHF/UHF gear to manage. Having 100mW power accuracy at the touch of a button and simultaneous SWR status is really invaluable. The optical quality/readability of the LED display is simply unbelievable. Check out LDG's feature construction article in the new July, '99 QST. Further info is available on their web page at URL: ldgelectronics.com.

Happy virtual Bird-watching,

72 - Conrad - NN6CW

Date: Wed, 16 Jun 1999 18:46:32 -0500
From: Jay Freeman <jayFreem@direcpc.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [42928] F00CPA
Message-ID: <37683757.93C650D7@direcpc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Howdy all,

I just worked F00CPA, all I got from him (or her) was a signal report (559!), but no qth. It's not listed in Buckmaster's web site and I can't find anything about it on the 425DX News site either. K4UTE's prefix finder leads me to believe this is Clipperton Island, does anyone know if that's right? Or is it somewhere in French Polynesia? Oh, I guess I should say I heard him around 21.040 in case anyone wants to go looking for him.

Thanks es 72,

Jay

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*-----*
* Jay Freeman - WT9S                      ARRL *
* G-QRP 10319 QRP-ARCI 9981 ARS 562        *
* SASS #18700                             NRA Life *
*-----*
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Date: Wed, 16 Jun 1999 18:57:18 -0500
From: "Lawrence T. Owens" <w4dec@dibbs.net>
To: qrp-1@Lehigh.EDU
Subject: [42929] Elecraft K2 ??
Message-ID: <376839DD.23C4@dibbs.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello Gang,

Does anyone have any late news on the K2 shipping? Last heard here was June 1st. Thought shipping was supposed to have started last week, but so far nothing new.

Thanks, impatient in Alabama,

Larry (W4DEC)

Date: Wed, 16 Jun 1999 20:17:26 -0400
From: "Don Wilhelm" <w3fpr@arrl.net>
To: <kenk@primenet.com>
Cc: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [42930] QSL card stock
Message-ID: <004901beb856\$cbe2f6e0\$125185ce@dbw-11>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Ken,

Saw your QRP-L post about QSL card stock. I use 4 x 6 blank index cards for my QSL cards. They are an adequate weight and although I would like a bit more gloss on the surface, I find the cost very attractive. I bought them at Staples in a package of 500. I can't remember the price, but it was quite reasonable.

73,
Don Wilhelm -- Wake Forest, NC
 W3FPR -- QRP-L # 485

Date: Wed, 16 Jun 1999 19:24:34 -0500
From: Wayne Alexander <walexan@ipa.net>
To: b_bradfield@yahoo.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42931] Re: SIX-METER QRP
Message-ID: <4.1.19990616191813.009474d0@popd.ipa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am just getting into 6 meters and was wondering what is a good Beam to buy. What would be a good amp if one would like to run 100 watts or so. I am using a 10w pep radio now and it works great. Really don't need much power when band is open. E-mail all response's direct to me so the list does not have to read. Thanks

73,
NOEA
Wayne
Willard, MO
FISTS # 4907
QRP-L # 1058

Web Page <http://www.qsl.net/n0ea>

Date: Wed, 16 Jun 1999 20:45:53 -0400
From: Tom Bowman <tbowman@nbn.net>
To: qrp-l@lehigh.edu
Subject: [42932] Re: Tuna Tin 2
Message-ID: <3.0.5.32.19990616204553.0083e2f0@nbn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Just worked Ed, W1RFI, using the TT-2 at 500mw.

He was 599 here in central Pennsylvania.

Definitely the biggest thrill for me in ham radio in lots of years.

Thanks for taking the time, Ed.

73,

Tom, WA3REY

<>< Tom Bowman, WA3REY, Mount Gretna, PA 17064

tbowman@mt-gretna.com QRP-L #125

<http://www.mt-gretna.com>

Date: Wed, 16 Jun 1999 19:56:26 -0500
From: mjfitz@uswest.net
To: qrp-l posts <qrp-l@Lehigh.EDU>
Subject: [42933] Re: Xtal Checker
Message-ID: <376847BA.AE1F9FD4@pop.omah.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Brewers-

Been using the circuit of Fig. 27.6 in the '96 Handbook to match

xtals. It uses two NPNs and is usable with xtals up to 25 MHz, maybe more... Used it to match IF xtals...Use a power supply at 9-12 V. and handheld freq. counter. Built it dead-bug. Template and parts placement available from ARRL, if you think you really need it...

Mike KI0AF Mo. Valley, IA

Date: Wed, 16 Jun 1999 20:16:36 -0500
From: "Chuck Adams K5FO" <adams@ticnet.com>
To: qrp-1@lehigh.edu
Subject: [42934] Friday Crowd at Tanner Electronics
Message-ID: <E10uPhd-00000x-00@pop3.ticnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Gang,

For those of you that were at Tanner Electronics
on Friday morning just before HamCom.

In a little plastic bag with some crystals there
are two parts (MAR-X type devices) on a white/purple
piece of paper. Don't lose those.

They are NEC uPC1651G IC amps. 1200MHz BW 19DB@500MHz

I have a circuit diagram on how to hook them up, so
again don't lose them and send me your USPS address.

Give me some keyword as to what else was in the bag.
:-) Part number 1651 K49 on the little critters....

I did an Alta Vista search and find no docs on these
anywhere on the net. If someone finds it, let me
know. I think we have a winner here.

Film at 11.

Chuck Adams K5FO adams@ticnet.com <http://www.qsl.net/k5fo/>

Date: Wed, 16 Jun 1999 19:17:47 -0600
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [42935] RE: Elecraft K2 ??
Message-ID: <007801beb85f\$476ecc00\$99a8a3cc@S&P.www.webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I don't want to create any expectations or mislead any thinking on the subject of when will the K2 ship...

But they must be getting kinda close because ...They were checking with me on my credit card's expire date just last Friday! Or maybe, was it they were just updating there books? Whichever! ...Who knows? Any sign or action on their part at this time can be interrupted to mean any number of things by this group! Which is "patiently" waiting to get a K2 life!

Steve/n0tu

Date: Wed, 16 Jun 1999 21:23:34 EDT
From: Wa2eaw@aol.com
To: qrp-l@lehigh.edu
Subject: [42936] Re: Homebrew QSLs
Message-ID: <d59e554d.2499a816@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Ken;
I made my own qsl card for almost 10 cents apiece. It involed a simple copy machine and file card stock from Staples. It was very simple. I wa able to get my phot on the card and just about anything that I wanted.If your interested drop me an email. I dont want to take up the bandwidth here.
72/73 de Bob Wa2EAW email to:<WA2EAW.AOL.COM>

Date: Wed, 16 Jun 1999 21:26:40 EDT
From: K4NK@aol.com
To: qrp-l@lehigh.edu
Subject: [42937] SWAP !
Message-ID: <2c325811.2499a8d0@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello QRP Gang;

I have an interesting swap to propose. I have a KLM "echo 70" 432 SSB XCVR in good condx., comes with mike power cable and book. Runs 10 watts CW or SSB in the 432-435 range. Good for sat's or weak signal DXing. I would like to trade it for a 20 or 30 meter QRP rig. What have ya got? A kit would be all the better. I also have a new 432 amp 8 watts in 40 out might make a deal there too. E-mail me direct with offers. Thanks.

72 Les K4NK

Date: Wed, 16 Jun 1999 21:30:44 -0400
From: Ken Freedman <n1qqv@cshore.com>
To: qrp-l@lehigh.edu
Subject: [42938] TT2 Problem
Message-ID: <3.0.32.19990616212930.006a2168@cshore.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang,

I live a little more than 40 miles from W1AW. I don't have a snowball's chance of hearing Ed from here on 40 meters, much less working him! On the other hand, I *could* put the QRP Plus in the car, drive up there and park in the League parking lot, right? I could hook the rig to the 2 meter antenna on the car and run a couple of milliwatts.. Balance the key on my knee....

Hmmm.....

73, Ken

Ken Freedman
AKA N1QQV/QRP ARRL VE, QRP-L, AMSAT

Date: Wed, 16 Jun 1999 21:31:37 EDT
From: K4NK@aol.com
To: QRP-L@lehigh.edu
Subject: [42939] WTB pixie kit
Message-ID: <e707cb70.2499a9f9@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I am interested in buying original pixie kits. Also any Knightlite surface mount kits. If you have some around and have not had time to build them please e-mail me. I have a project going with a local club ,I am trying to convince them that you can work out with low power and want to demo a building session at a club meeting.

72 Les Shattuck K4NK

Date: 16 Jun 1999 19:49:12 -0700
From: W0rw@kktv.com
To: qrp-l@lehigh.edu
Subject: [42940] Xtal Bible
Message-ID: <199906170150.VAA31344@nss4.cc.lehigh.edu>

i have a "Handbook of Piezoelectric Crystals for Radio Equipment Designers", by John Buchanan, Philco Corp.
WADC TR 56-156/ASTIA Doc. AD 110448, Dec. 1956, 692 pages.
It is one of the old NBS Pubs Distributed by the Clearinghouse.
It is a great resource for piezoelectric crystal principles and oscillator design (Tube oscillators only),
i Just used it to design a VLF Butler Oscillator.
The history of the Xtal is really interesting...
The first chap to use the Xtal as an RF circuit element was
A.M. Nicholson in 1918, others had used it only for acoustic purposes before.
Paul W0rw

Date: Wed, 16 Jun 1999 21:55:31 -0400
From: "Alex Mendelsohn" <ai2q@ispchannel.com>
To: <jayFreem@direcpc.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42941] RE: F00CPA
Message-ID: <000101beb864\$7ad56b80\$5c32a7d0@mendelsohn.ispchannel.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jay, are you sure you copied his callsign okay? F00CLA has been very active around 21011 kHz in the evenings the last few days. His manager is F6LQJ.

Vy 73, AI2Q, Alex

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
> Jay Freeman
> Sent: Wednesday, June 16, 1999 7:47 PM
> To: Low Power Amateur Radio Discussion
> Subject: F00CPA
>
>
> Howdy all,
>
> I just worked F00CPA, all I got from him (or her) was a signal report
> (559!), but no qth. It's not listed in Buckmaster's web site and I can't
> find anything about it on the 425DX News site either. K4UTE's prefix
> finder leads me to believe this is Clipperton Island, does anyone know
> if that's right? Or is it somewhere in French Polynesia? Oh, I guess I
> should say I heard him around 21.040 in case anyone wants to go looking
> for him.
>
> Thanks es 72,
>
> Jay
>
> --
> *-----*
> * Jay Freeman - WT9S ARRL *
> * G-QRP 10319 QRP-ARCI 9981 ARS 562 *
> * SASS #18700 NRA Life *
> *-----*
>
>
>

Date: Wed, 16 Jun 1999 21:54:54 -0400
From: Richard Arland <k7sz@epix.net>

To: Sam Billingsley <SBillingsley@usaninc.com>, qrp-1@lehigh.edu
Subject: [42942] Re: The Yankees Are Coming, The Yankees Are Coming!!!
Message-ID: <3768556E.83E88E0A@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Sam Billingsley wrote:

>
> Rich,
>
> Thanks for particapating with us at the Hamfest
> I think everyone had a great time.
> Your book will be given out at the next meeting.

My pleasure, Sam.

FYI for the rest of the group....I had an absolutely WONDERFUL time at the Atlanta hamfest on 5 June. The NOGA dudes took good care of this Yankee and I will be forever grateful for their true Southern Hospitality.

I bought one of their NOGAnaut transmitter kits and am in the process of putting it in a case. As it was explained to me, the NOGAnaut is a working version of the Ingram Micronaut featured in CQ magazine a year or so ago. It's a great little club project and a fun kit to build.

Many thanks to Pickett, AD4S for the ride to and from the fest, Russ, AE4NY, who put up with me during the ride, Sam AE4GX, Jim, W4Q0, Mike K04WX, and a host of others I met during the fest. I had a GREAT time.

If any of you want to travel down to North Georgia, be sure to plan your trip to take in a NOGA meeting (ck out their web site) and be prepared to meet some great QRPers and have a lot of fun!

73 Rich K7SZ

Date: Wed, 16 Jun 1999 20:57:59 -0500 (CDT)
From: "William Phinizy" <k6whp@gte.net>
To: qrp-1@Lehigh.EDU
Subject: [42943] remove
Message-ID: <199906170157.UAA17236@smtp2.gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Content-Transfer-Encoding: quoted-printable

The attached message has not been read by the intended recipient. This response is being forwarded to you automatically by an e-mail checking program.

Please remove my name and e-mail address from all your lists immediately.

--- This message was intercepted by SpamKiller (www.spamkiller.com) ---

(Not retrieved)

Date: 16 Jun 99 21:58:27 EDT
From: Roy Lincoln <wa4dou@usa.net>
To: qrp-l@lehigh.edu
Subject: [42944] GINPOLE ?(not qrp)
Message-ID: <19990617015827.9215.qmail@www0j.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Hi Gang,

Getting ready to build a couple of towers in the back yard. Both will be modest, one will be 30 ft. high, housebracketed. The other will be 55 ft. guyed for a Mosley TA-33 jr. Both will be Rohn 25G. =

I ordered a ginpole kit from IIX(ad in QST). You get the clamp and pull=ey and provide your own pipe.

My question is: Anyone see any reason why i can't use Schedule 40 alumi= num pipe in size 1-1/2" I.D.(actually 1.61" I.D.---1.9" O.D.). I'm thinking o= f a strength perspective, bearing in mind that the greatest weight the ginpol= e will be called on to lift will be one section of 25G tower and it will no= t be subjected to lateral loading as i intend to use a "tower block" attached = waist high on the lower section to allow horizontal rope pulling, in the intere= st of staying out from under the "load."

Thanks es 73 Roy Lincoln WA4DOU (Elm City,N.C.)
=

Get free e-mail and a permanent address at <http://www.netaddress.com/?N=3D=1>
1

Date: Wed, 16 Jun 1999 22:03:20 -0700
From: Charles Kadesch <chas@digizen.net>
To: jayFreem@direcpc.com
Cc: qrp-1@lehigh.edu
Subject: [42945] Re: F00CPA and 15 meter DX
Message-ID: <37688198.6FC@digizen.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jay Freeman wrote:

> I just worked F00CPA ..

I worked F00CLA at about the same QRG today. He said he was in the Marquesas Islands (near Tahiti) and to QSL via F6LQJ. 15 meters CW has been very, very hot the last few weeks with loud DX late into the night. A few of the interesting ones I was lucky enough to snag: JY8YB (Jordan), E41/OK1FAI (Palestine), V51AS (Namibia), 5A1A (Libya), EP2MK0 (Iran), VU2TMP (India), JT1DA (Mongolia). My new short Zepp is woking better than my old vertical. I'm not really chasing DX anymore but when they are rolling in like this it is hard to resist the fun. Give it a try if you are QRV on 15. Some of these guys are calling CQ with nobody answering. It should be getting even better as the flux peaks.
-72 de Chas W3KC-

Date: Wed, 16 Jun 1999 21:10:25 -0500
From: Jay Freeman <jayFreem@direcpc.com>
To: ai2q@ispchannel.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [42946] Re: F00CPA
Message-ID: <37685911.9F5182EC@direcpc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Alex and all,

Thanks for all the responses! I did have a lot of QRM on my end, so I guess it was F00CLA, not P. I was also pretty keyed up :) (pun intended) at finally getting down to the South Pacific.

My dial isn't very accurate, but I thought he was a little higher than 21.011, guess I better check the calibration again so I don't wander out of the band.

Thanks again, es 72,

Jay

Alex Mendelsohn wrote:

> Jay, are you sure you copied his callsign okay? F00CLA has been very active
> around 21011 kHz in the evenings the last few days. His manager is F6LQJ.
>

--

```
*-----*
* Jay Freeman - WT9S                ARRL *
* G-QRP 10319 QRP-ARCI 9981 ARS 562  *
* SASS #18700                      NRA Life *
*-----*
```

Date: Wed, 16 Jun 1999 21:03:30 -0400
From: Martin J Lynch <ka1lxg@juno.com>
To: qrp-l@lehigh.edu
Subject: [42947] Address Change
Message-ID: <19990616.215304.-968001.0.ka1lxg@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

I have had to change address and need to inform the following clubs:
ARCI, Colorado QRP, NORCAL, and Michigna QRP. Can anyone please inform me
of where to send my change of address?

73,

Marty, KA1LXG

Date: Tue, 15 Jun 1999 20:00:45 -0700
From: Thomas Kuehl <ac7a@uswest.net>
To: kizerian@ced.utah.edu
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [42948] Re: More JFET SPICE Models
Message-ID: <3767135D.4F444E9D@uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello Bruce:

I can help you with the JFET Spice models. Since the 2N3819, MPF102, and J310, were all common JFETs used in RF circuits, I am posting the models so others who are into Spice modeling can also use them. The models are from the National Semiconductor library. I suggest you cut and paste them to a text file that your version of Spice can read. Otherwise you will have to type all that follows very carefully!

Best Regards, Thomas - AC7A

```
.model MPF102 NJF(Beta=1.04m Betatce=-.5 Rd=1 Rs=1 Lambda=2m
Vto=-3.41
+ Vtotc=-2.5m Is=33.57f Isr=322.4f N=1 Nr=2 Xti=3
Alpha=311.7
+ Vk=243.6 Cgd=1.6p M=.3622 Pb=1 Fc=.5 Cgs=2.414p
Kf=11.73E-18
+ Af=1)
* National pid=50 case=T092
* 88-08-02 rmn BVmin=25
```

```
.model J310 NJF(Beta=3.384m Betatce=-.5 Rd=1 Rs=1 Lambda=17m
Vto=-3.409
+ Vtotc=-2.5m Is=193.9f Isr=1.881p N=1 Nr=2 Xti=3
Alpha=7.533u
+ Vk=74.1 Cgd=6.2p M=.4647 Pb=1 Fc=.5 Cgs=6.2p Kf=46.34E-18
+ Af=1)
* National pid=92 case=T092
```

* 88-07-14 bam BVmin=25

.model J2N3819 NJF(Beta=1.304m Betatce=-.5 Rd=1 Rs=1
Lambda=2.25m Vto=-3
+ Vtotc=-2.5m Is=33.57f Isr=322.4f N=1 Nr=2 Xti=3
Alpha=311.7
+ Vk=243.6 Cgd=1.6p M=.3622 Pb=1 Fc=.5 Cgs=2.414p
Kf=9.882E-18
+ Af=1)
* National pid=50 case=T092
* 88-08-01 rmn BVmin=25

Date: Wed, 16 Jun 1999 21:20:12 -0600
From: Tim Pettibone <tpettibo@NMSU.Edu>
To: qrp-1@lehigh.edu
Subject: [42949] vendors
Message-ID: <199906170320.VAA16876@nestor.NMSU.Edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang:

I've had some really good experiences with vendors lately and wanted to tell you about them. First, I finally gave in and decided to get an O'scope. Heard about Lew Coppes over in Arizona and exchanged some e-mail with him. With a fair amount of hand-holding I finally decided on a Tektronix 335 dual trace, 35 mhz, etc. It got here in fine shape and I really appreciate Lew's help and advice. Can't tell you that I got the best price possible but I think it was pretty good and I ended up trusting the guy. He has lots of surplus test equipment. His e-mail is: lcoppes@primenet.com

My next tale is about W4MPY QSLs. Wayne Carroll is the proprietor and I've done business with Wayne for many years. I remember when I was in Alaska I asked him to insert a realistic map of Alaska (one showing the "real" Aleutian Island chain). He did it and I had a really impressive QSL. Recently I ordered 1,000 of some plain jane type qsls (have had nearly 8,000 Qs in the past 7 years). They came in about 2 weeks. Before they arrived Wayne sent an e-mail stating that he had checked several that he had pulled from my order (apparently he keeps a file of each order). He said that he had done another run and to please send the original order back. Sure enough, I got the new cards 2 days later with postage for the return of the "bad" cards. They looked ok to me but what do I know? Carefully inspecting I did find that the new ones were much better than the old. Now that's

concern for quality and I really appreciate the special attention. His e-mail is: W4MPY@W4MPY.COM.

In addition, I've had good experiences with Emtech, Elecraft, Dan's Small Parts, Milestone Technologies (or is it Morse Express or Oak Hills Research?), Wilderness Radio, Red Hot Radio, SWL, Radio Shack, and many, many others. In fact, I can't think of a company that I have dealt with in the past 5 years where I've had a bad experience. Maybe some delays but no really bad experiences. Thanks to all.

By the way, I had a ball at HamCom. Haven't attended any real hamfests for a long time. This one was great and I enjoyed meeting a lot of new friends and many olds ones as well. By the way, I resisted buying a whole bunch of stuff and only ended up with a NorCal t-shirt and an audio transformer for my 2N2-40! Hope to make Ft. Tuthill.

72

Tim K50I
Las Cruces, NM (the land of enchantment!)

Date: Wed, 16 Jun 1999 22:25:17 -0500
From: "Chuck Adams K5FO" <adams@ticnet.com>
To: qrp-l@lehigh.edu
Subject: [42950] SPICE Models
Message-ID: <E10uRi9-0003LX-00@pop3.ticnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Gang,

I am in the process of moving all the SPICE models that I have over to the web page.

<http://www.qsl.net/k5fo/models.htm>

This will take some time as I think I have 300+ models to move. And let me hope that the double carriage return in Win98... doesn't give us all fits.... Don't ask me why,

I just work here. :-)

I will work on this tonight until it is done. Have most of the NPNs moved and will work on the PNP's and JFETs. It should go faster as I now have a template to work with.

If you have a problem with any particular file, just email to me direct. I'll fix it. The rest of the group won't appreciate the spam to QRP-L.... :-)

If anyone has a model or models that I don't have, email them to me.

The purpose of this project is so that you don't have to type or cut and paste models from other sources. A stitch in time saves nine.

FYI

Chuck Adams K5FO adams@ticnet.com <http://www.qsl.net/k5fo/>

Date: Wed, 16 Jun 1999 23:29:57 EDT
From: Kb4utv@aol.com
To: qrp-l@lehigh.edu
Subject: [42951] FS:Ten Tec 1340
Message-ID: <e902a80c.2499c5b5@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have a Ten Tec Tkit for 40 meters for sale. Currently set up for novice portion of 40 meters. Will sell for \$85 and I will ship. I do have the assembly manual also. John KB4UTV

Date: Wed, 16 Jun 1999 20:28:27 -0700 (PDT)
From: "David D. Meacham" <ddm@datatamers.com>
To: Bruce Kizerian <kizerian@ced.utah.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42952] Re: Silver Mica cap dilemma
Message-ID: <Pine.LNX.3.96.990616202231.6622A-100000@dt1.datatamers.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Bruce,
Actually, mica capacitors have very *low* dissipation factors...
in fact, that is their main feature. They typically go for \$0.25 ea
at surplus stores around Silicon Valley.
72, Dave , W6EMD

Date: Wed, 16 Jun 1999 22:40:32 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [42953] Re: Astronauts and QRP
Message-ID: <005d01beb873\$279cf460\$d537a497@aa5tb>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The astronauts having been using 2 meter QRP FM simplex to talk to hams since about 1983 and still do when project "SAREX" is active. The MIR space station does as well. The main frequency has been 145.55 MHz, sometimes simplex, sometimes duplex with other frequencies. I believe the shuttle still uses a window mounted antenna where as the MIR space station has the luxury of an outboard antenna. The power is never more then a few watts. It doesn't take anymore then a few watts to work them even if you're using a non-directional antenna unless the competition is great or the shuttle's window is facing out to deep space. There just isn't much additional path loss associated with direct signals through the atmosphere at 2 meters. I 'm not sure what the astronauts use now for their official communications. Most of it is relayed through the TEDRIS (spelling?) geostationary satellite(s) I think.

By the way, I have heard that the space shuttle will be having its last SAREX mission soon. Check with AMSAT for details.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://home.swbell.net/aa5tb>

Date: Wed, 16 Jun 1999 23:49:00 EDT
From: Macstein@aol.com
To: qrp-l@lehigh.edu
Subject: [42954] KF4KSM blown away by K8FF's NC20
Message-ID: <cf84f3d7.2499ca2c@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I just worked Wayne up in Ohio off the back of his beam down here in FL. He was toying with the Russians over the pole, when I snagged him. We were both using NC20's and I actually took the phones off and laid them on the bench. Sounded blatant QRO to me Wayne (grin). BTW, he was using some new proto-paddles that I can't wait to see!!! Vibroplex is gonna get more of my money I suppose... hope you get at least some of it Wayne! Thanks for the nice long chat thru the QRM.

-MAC-
KF4KSM

Date: Wed, 16 Jun 1999 23:53:18 -0400
From: Ken Newman <N2CQ@citnet.com>
To: QRP-L@lehigh.edu
Cc: njqrp@njqrp.org, epaqrp-l@lehigh.edu
Subject: [42955] Sergio's Boards Received
Message-ID: <3.0.6.32.19990616235318.00812430@mail.citnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks for the fine boards and just for the postage, Sergio!
I don't know how much the usual QRPer is paying at hamfests etc, but Sergio's deal is hard to beat. Nice boards and two of them big enough for a 2N2/40 and then some. This is more boards I've seen in the shack here than I can remember. It is a very QRP offer to ALL the QRP friends. THANKS FOR A BUNCH, Sergio!
If I get over to Ohio, I'll check out the info you sent with the goodies.

72 de N2CQ

Ken Newman
Woodbury, NJ

N2CQ@ARRL.NET

Eastern PA QRP Club #9

Date: Wed, 16 Jun 1999 18:15:49 -1000
From: "Art Neilson, KH7PZ" <art@hawaii.rr.com>
To: ku7y@dri.edu
Cc: qrp-1@lehigh.edu
Subject: [42956] Re: OHR WM-2 Wattmeter
Message-ID: <3.0.6.32.19990616181549.00882350@pop-server>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Yes of course it is endless, it is our scientific nature which drives us to quantify, measure and try to bring order to the universe of which we are a part.

:^) :^) :^)

If you feel it's useless to try to have an accurate watch, why do you own one? What's the point?

At 01:07 PM 6/16/99 -0700, you wrote:
>On Wed, 16 Jun 1999, Stan Goldstein wrote:
>
>> That's great , but is your scope calibrated ?
>> Or do you now have 3 watches ?
>> (hee hee)
>>
>> Stan , N6XU
>
>Opps, don't forget the dummy load..... Oh, you measured it as
>51.2 ohms?? Well, what about the ohm meter??.....
>
>Darn, now we are up to about 5 watches!
>
>Now you all see why I run 4.5 w in contests.....gives me room
>to feel that even with some errors in measuring I'm still below
>the 5 w level!
>
>:-)
>
>Hmmmmm, 12:55 already??? Wow, that doesn't seem right....I gotta
>go find another watch.....
>
>73, Ron, SOWP 5545M,

>
>.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
>....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
>....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....
>
>

 / _) _/_ It is a capital mistake to theorise before one has data.
 /--/ _ / Insensibly one begins to twist facts to suit theories,
/ (_/ (_<_ Instead of theories to suit facts.
 -- Sherlock Holmes, "A Scandal in Bohemia"

Arthur W. Neilson III, KH7PZ
Bank of Hawaii Tech Support
art@hawaii.rr.com

Date: Wed, 16 Jun 1999 23:20:09 -0500
From: "Lawrence T. Owens" <w4dec@dibbs.net>
To: qrp-l@Lehigh.EDU
Subject: [42957] Thanks:
Message-ID: <37687779.288@dibbs.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Greetings Gang,

Many thanks to all who E-Mailed me regarding the K2. Have been looking at the Elecraft web page every dday for the last week in hopes of some late news. Guess Eric and Wayne are swamped and I did not want to bother taking up their time by bugging them. Thanks again and 72/73 to all.

Larry (W4DEC)

Date: Thu, 17 Jun 1999 00:45:05 -0400
From: Andris Neimers <VitalVoice@compuserve.com>
To: QRP-L reflector <qrp-l@Lehigh.EDU>
Subject: [42958] 6m QRP? - Try UKSMG
Message-ID: <199906170045_MC2-79AF-4C18@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable

Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

A number of direct queries following my moaning about the lack of a 6m SS= B
QRP kit remind me that those just getting into 6 metres, and having acces= s
to the WWW, should also check out the doings of the United Kingdom Six
Metre Group (UKSMG), which resides at <<http://www.uksmg.org>>.. It's
undoubtedly the largest international group of hams working the magic ban= d
although not all are QRP... Six metres is a natural for QRPers because at=
the peak of solar cycle, and when the band opens, you can work the world
with 5/10 w. SSB., let alone CW... The trick, as many have already noted,=
is that it takes a certain kind of temperament to work on 6 since your do=
indeed often listen to nothing but white noise for hours or days... And i= f
you're even crazier than the proverbial coon hound then you can try QRP s= ix
metre meteor scatter, which is right up there with the sound of one hand
clapping...

72 and 73!

Andy/VE7FJT

=

Date: Thu, 17 Jun 1999 00:42:56 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-1@lehigh.edu
Subject: [42959] Next stop: Ft. Tuthill
Message-ID: <Pine.SUN.4.10.9906162350550.4545-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
Gee, I think I've almost caught up on my sleep from HamCom. 3 hours
a nite for a couple of nights catches up with you. I'm getting too old

for this crap. Like Field Day, I swear I'll never do it again. But of course, fortunately, we all get over that in a few days. Especially when I realized how Ft. Tuthill is about a month away. Oh boy, that's still one of my favorite ones.

Unofficial Ft. Tuthill sales pitch follows.

THE FT. TUTHILL HAMFEST IS FRIDAY, JULY 23rd TO SUNDAY, JULY 25th.

I usually drive from Socorro to Flagstaff, AZ (6.5 hour drive) to get there early evening on Friday. That's when lots of the guys are getting there, including all the local QRPers from Phoenix, Chandler, etc. We all get our tents put up and the campsite ready, then drift into town to terrorize some local restaurant. Then back to the QRP campground to sit around amongst the tall pines, pitch dark, and enjoy good conversation and a couple of cool ones. Then somewhere around 10pm or after, the game begins ... trying to remember where you setup your tent, and FIND it in the pitch dark of the forest! I think I'll mark mine this year with my GPS.

Safety Tip: For those who might camp out for the first time .. do NOT attempt to erect your tent in the dark!

Of course there are gobs of motels in Flagstaff, being the gateway to the Grand Canyon and all (about 2 hours away). But if you haven't slept in a sleeping bag for awhile, Ft. Tuthill is the place for that. And it's only a few bucks a nite, which includes the showers within the secured campground occupied by nothing but QRPers.

Saturday is the main hamfest. Ft. Tuthill draws people from throughout AZ and the surrounding states, so is fairly well attended, plenty of the major vendors, gobs of tail gaters, etc. The hamfest is held just a few miles south of Flagstaff at the Coconino County Fairgrounds, or Ft. Tuthill. A big arena building, food vendors, and smaller event buildings, one of which is what that QRP activities are held in. It really does have that old fashioned "county fair" atmosphere. Everything is within easy walking distance, even to the campground in the trees just behind the fair grounds. The QRP talks and events go on all day, and also gives you plenty of time to roam the hamfest itself.

The hamfest gears down around 5pm, and about an hour later is the QRP cookout, which is usually a pot-luck, bring your own steak type of thing, with plenty of local cooks to point out how you can't cook a steak for beans! This is held within the campground, charcoal BBQ grills provided, covered pik-nik tables, etc. Very informal, nice and relaxing. I'll let one of the Az ScQRPions post details on how the BBQ dinner will work this year. Of course you have the option of camping out in the campground (for campers and RV's too!), or returning to town after the dinner

if you're staying in a motel. Once it gets dark and we get rid of the riff-raft, err I mean those staying in motels, the famous Ft. Tuthill International QRP campfire begins. Just a campfire in the woods. I think it is Roger Hightower that announces "let the fun begin" and Dr. Megacycle toasts the first brew. Jay Miller stands there in this stupor like he's been standing there since last year. All the ScQRPions you've grown to love are there ... Bob and Bertie Hightower, Roger Hightower, Kent Torrel, Joe Gervais, Mike O'Conner, Brian Kassel, Dan Tayloe, Gary Surrency, David Yarnes ... well, you get the idea. Then of course the regular NM gang, and all the new faces that decided to risk the wild west from all sorts of places. People who have never actually seen the Milky Way before.

Sunday is like sunday at most hamfests. The crowds are thinner, prices come down, people start taking off. The after-glow day! And how hard it is to say goodbye to everyone and head home.

If you've never been to Ft. Tuthill, try it - you'll like it. Inspite of the mountain, campout, county fair atmosphere, you still get the same quality talks, building contests, etc. as at any QRP event. Just in a very unique way that makes it very enjoyable and memorable. No concrete jungle, no approaching 747's, no crime scene helicopters hovering over your head, ... just that 2am freight train going warp 3. And a whole bunch of racket from the campfire - though I always try to take the lead and get real quiet about 10pm. :-)

Stay tuned for further details. Info will be posted and updated on Bob Hightower's web page on how to get there, list of speakers and events, etc. And of course it's FREE except for the modest camping fee levied by the fairgrounds.

The AZ ScQRPions do an excellent job every year hosting the QRPers, and deserve a job well done. And I see no reason to believe this year will be anything but the same western hospitality and quality. And I'm sure one of them will correct anything I mis-stated that will be different this year from my recollections of past ones.

CU July 23rd!

72, Paul NA5N
Portable dome tent and sleeping bag/7

Date: Thu, 17 Jun 1999 13:10:28 +0200
From: Lagier Gerard <Gerard.Lagier@cnes.fr>
To: "'QRP-L'" <qrp-l@lehigh.edu>
Subject: [42960] SGC 2020
Message-ID: <7E010CD07C1BD311AB9000805FCCF62E068BA1@thebes.cst.cnes.fr>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Hi Gang,

As I mentionned yesterday, F6BLK and I met some problems with the 3 SGC =
2020
we bought recently.

All these problems lead to send back the rig to Bellevue.
All these problems appeared as soon as we got the 2020.

Hereunder are the different troubles:

SGC 2020 n=B01 (F6BLK first rig) received in March 98

- Audio very noisy:=20

The problem forwarded to SGC lead them to send us a couple of 10V =
regulator
(78L10) in order to fix the problem.
I performed the change and an improvment was observed.
Anyway, the audio remained dirt and finally, Bernard F6BLK sent the =
unit
back to SGC.

The repaired unit shows a better audio but some erratic noise is still
present.

SGC 2020 n=B02 (mine) received in September 98

- Very strong noise when moving the main frequency noise. As soon as =
the
frequency is stable, the 2020 works very well.
In other words, weak signal are unable to be find due to noise...I went =
over
them.
SGC recomand to have a look inside the transceiver in order to check =

if a
wire was properly set in regard with the edge of one of the PCB.
It was.
So, I suspected the VCO and SGC claimed to send back the rig. I did it.
They sent a brand new one quickly.

SGC 2020 n=B03 (F6BLK second rig) - received in May 99

- Bernard opened the box and was on the air very quickly using a =
vertical and
an SGC 231 antenna coupler. The rig was working perfectly. He got the =
last
software version and a new design inside the first IF amp.
But after a couple of QSO, the rig went in transmit mode suddenly then
toggling between transmit and receive.
An alert to SGC was sent via mail and they recommanes to perform a =
long
reset which could be lasting until 30 minutes (!)=20
Bernard ran the procedure and recovered for a while the overall =
functions of
the rig.
Unfortunately, the same problem occurred (frequency locked, all commands
inoperative...) and that time, SGC recommended to extract the
microcontroller, then to insert it back.
No stable operation was observed after this tricky procedure...!

Finally, the 2020 has been returned last week to Bellevue.

What I have to mention, regarding SGC customer support:

- SGC has always provided a very fast support through mail answer.
- SGC answers were very kind and they were sorry about the problems =
observed
- anyway, they never agreed to explain the origin of the trouble, =
despite
precise questions sent to us. We can regret this, especially toward ham
operators.

My feeling:

- When the rig is OK, it's working well for this class of equipment.
- SGC had to face a large demand of 2020 and started to sell it with a
version which was not completely achieved.
- The quality control could certainly be improved.

G=E9rard

F6EHJ

-=20

Date: Thu, 17 Jun 1999 06:33:55 -0600
From: Bruce Kizerian <kizerian@ced.utah.edu>
To: Thomas Kuehl <ac7a@uswest.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [42961] Re: More JFET SPICE Models
Message-ID: <3768EB33.B4A400ED@ced.utah.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks Thomas

I am working on a major improvement for the ElmeRadio. This information will be very helpful.

Bruce kk7zz

Date: Thu, 17 Jun 1999 09:08:51 -0400
From: sergio <sruiz@bright.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [42962] copper laminate...
Message-ID: <3768F362.9E54D64E@bright.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

just a reminder to all.. the offer is still open...

i am packing more envelopes tonight...

hope you all like your loot!

this is really cool...

i always liked getting stuff in the mail...

--

peace,

sergio

<http://www.bright.net/~sruiz>

"the village buzz"

Date: Thu, 17 Jun 1999 08:05:50 -0500
From: "Tom Moll" <tomm@xata.com>
To: <qrp-l@lehigh.edu>
Subject: [42963] Dummy Load Night
Message-ID: <000001beb8c2\$20c218b0\$4baa7acf@tomm.XATA-CORP>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Most of us that have been around for a while have some kind of experience with making contacts with less than optimal antennas (I do it every night in fact). Sometimes we are hesitant to make these admissions in public if it was the result of doing something stupid! It would be fun to have an organized effort to see just how many such contacts could be made INTENTIONALLY.

How about organizing a Dummy Load Night when we all get on 7040 running 5w into our dummy loads, and just see how many contacts can be made?

I'd suggest a few contest rules be used to level the playing field.

For example:

1. Each contact made with dummy load for transmit only - 5 points
2. Each contact made with dummy load for receive and transmit - 10 points
3. Home made dummy load - total score X 1.3
4. If using a dummy load integral to antenna tuner, take total score and divide by 5 (to compensate for probable capacitive coupling to the real antenna !)
5. If dummy load weighs more than 8 oz., take total score and divide by 2 (the dummy load should be 'QRP' too - no oil cooled Cantennas!)
6. Take total score and divide it by the length (in feet) of coax used to

connect to the
dummy load.

7. Take total score and subtract the number of feet the dummy load is
above ground level (or add the number of feet below ground level).

I'm sure additional rules will be necessary, and that you guys can easily
dream them up :)

Waddya think? Could be fun.

Tom Moll N0BS

(no, I'm not kidding - the results of this would make a great QST article)

Date: Thu, 17 Jun 1999 09:33:50 -0400
From: "Don Chisholm WX3M" <dchishol@oakland.edu>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [42964] Re: Dummy Load Night
Message-ID: <000701beb8c6\$09542f20\$82f80718@roalok1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

i have worked a few QSO's on my cantenna before - always a humbling
experience. I think the dummy load night is a good idea. any points
deducted for putting the cantenna out on the roof or tower? :)

donny

Don Chisholm - WX3M
Oakland University - Department of Music, Theatre, and Dance
undergraduate - secondary instrumental music education
dchishol@oakland.edu
<http://www.oakland.edu/~dchishol/>

Date: Thu, 17 Jun 1999 09:16:58 -0400
From: "Michael St. Angelo" <mstangelo@worldnet.att.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [42965] RE: Silver Mica cap dilemma
Message-ID: <01BEB8A4.C0C16640.mstangelo@worldnet.att.net>
MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Dan's Small Parts has a good selection of Mica caps.

Check <http://www.fix.net/dans.html>

Mike N2MS

Date: Thu, 17 Jun 1999 13:47:59 +0000
From: wd8civ@att.net
To: qrp-l@lehigh.edu (QRP-L Mailing List)
Subject: [42966] Re: Dummy Load Night
Message-ID: <19990617134857.GMVL12284@webmail.worldnet.att.net>

> How about organizing a Dummy Load Night when we all get on
> 7040 running 5w into our dummy loads, and just see how many
> contacts can be made?
> I'd suggest a few contest rules be used to level the playing field.
> For example:
> 1. Each contact made with dummy load for transmit only - 5 points
> 2. Each contact made with dummy load for receive and transmit - 10 points
> 3. Home made dummy load - total score X 1.3

Tom,

Are you sure about this? I could make a dummy load that would
radiate better than some CB antennas.

> 4. If using a dummy load integral to antenna tuner, take total score and
> divide
> by 5 (to compensate for probable capacitive coupling to the real antenna !)
> 5. If dummy load weighs more than 8 oz., take total score and divide by 2
> (the
> dummy load should be 'QRP' too - no oil cooled Cantennas!)

I've found Cantennas to be pretty well shielded. How about we drain the oil?

> 6. Take total score and divide it by the length (in feet) of coax used to
> connect to the
> dummy load.

Well, then I'll just claim an infinite score right now, 'cause I'll hook a 51 ohm resistor across my final. Zero length of coax. (Do the math on your computer. Divide by Zero is a major error.)

> 7. Take total score and subtract the number of feet the dummy load is
> above ground level (or add the number of feet below ground level).

Despite my nit-picking, I think it sounds like a fun idea! Kind of a tweak on the nose of the "serious" testers, not to mention the hams who -should- be using a Cantenna.

Do you think the exchange should include the equipment?

RIG HR IS XTAL WITH 9V BATT. ANT IS TOASTER. UR 219.

Dave, WD8CIV

Date: Thu, 17 Jun 1999 08:09:34 -0600
From: John Evans - N0HJ <jaevans@codenet.net>
To: qrp-1@lehigh.edu
Subject: [42967] Re: Elecraft K2 ??
Message-ID: <3769019E.C0CDD7E3@codenet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Larry et al.,

Checking the Elecraft webpage yesterday, I did notice a slight change in the June 1 news, with no corresponding update in the news date!! I bear no grief on Wayne and Eric - I can't imagine what it would be like trying to pack up and prepare to ship. I suspect we will see them soon. I am sure that Wayne and Eric would prefer to enjoy Field Day !!!

72 - john

Lawrence T. Owens wrote:

>
> Hello Gang,
>

> Does anyone have any late news on the K2 shipping? Last heard here was
> June 1st. Thought shipping was supposed to have started last week, but
> so far nothing new.

-- John A. Evans, N0HJ -- jaevans@codenet.net

Date: Thu, 17 Jun 1999 10:12:43 -0400
From: sergio <sruiz@bright.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42968] copper clad international..
Message-ID: <3769025B.CC5557C8@bright.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

i just talked to the post office.. man, they are cool over there..

anyway...

they said that they have a global priority envelope.. and it is just a
bit smaller than the domestic one..

for 2 lbs (which is about what most of the packages weigh..)

it costs:

canada \$7.00

australia .. \$9.00

sweden ... \$9.00

i think those are all the requests i have had so far..

so, if any dx people are interested, let me know, and i will find the
rates for you...

thanks!

--

peace,

sergio

<http://www.bright.net/~sruiz>

"the village buzz"

Date: Thu, 17 Jun 1999 07:14:11 -0400
From: Nils R Young <nilsbull@juno.com>
To: QRP-L@lehigh.edu
Subject: [42969] Toroid colors/qualities question & antenna tuner notes
Message-ID: <19990617.072946.16718.0.nilsbull@juno.com>

Gang,

One of the bizarre aspects of recuperation is the free time & absolute boredom. And the fact that, in this case, it's easier to stand up or lay down than to sit up straight in a chair with the TV remote clicking away stage left.

I recently got a couple doodads from TechAm, a couple T-200 toroids in type 1 and type 6 material. I got the type 6 'cause I'd been reading web info on antenna tuners & wanted to build a bigger version of the ZM-# tuner that I finally put in the traveling radio box. So the stuff arrived & I turned to turning wire onto the cores.

On the T-200-6 I wound 23 turns, tapped at 9 & 14 turns from the bottom. I wound 7 turns over that another layer on the bottom end of the coil for the output link. Before doing that, I covered the output link in teflon pipe thread tape, just to make sure I had some insulation at that point in the circuit.

The series input cap is about 400 pf & the two split-stator sections that parallel with the coil at the top & first tap are about 250 pf. The tuner will tune 2.5 MHz through 30 MHz with very little fiddling. The eventual end of this will be a box with reduction drive on the parallel cap & a bunch of other stuff.

I found that putting about 400 pf in parallel with the input cap and 200 pf in parallel with the cap at the top of the coil would give me 160m. However . . . the caps I used (5 kv ceramics) heat up & change their capacitance over key-down time. This I attribute to the ceramic, since old flat, brown, bakelite 6 kv mica caps of similar capacitance don't seem bothered.

Then I wound a coil of some 40 turns on the T-200-2, tapped at 16 & 24 & found that this would tune nearly 160 m but wouldn't go any higher than about 14 MHz. It would tune 160m if I ran both split stator sections at the top of the coil. So I tried the split stator sections at the top of the T-200-6 & found that I could almost make 160m.

Back to the T-200-2/T-200-6 differences. The type 6 core tunes the range of general interest, but the Amidon specs say it's good for 10-50 MHz, 7 MHz shy of the lowest frequency. The claim I found on the web was that type 6 material had a higher Q. That's proven by the difference on the higher bands (10-20) between the type 6 and the type 2. The type 2 core, when wound with 27 turns tapped at 11 & 16, was very uncompromising to the higher band receive. What I could hear with the type 6 metal on 10m disappeared with the type 2 core on 10m.

So I'm at least thinking that the type 6 metal is the way to go for general 80-10m use. But I'm still out the 160m range.

My solution would be to use a type 1 core for 160m with a dedicated circuit (another damn box) for that band. And leave the circuit that tunes 3.5-30 MHz as is with the type 6 material for those bands in a separate box.

Or I could build a box with the circuitry for a 160-40m tuner and the circuit try for 80-10m tuner, switching between 'em by simply changing the coils (which I can do with a multi-pole, two position ceramic switch that I've got around here). The box would be slightly bigger than the planned one for the 3.5-30 MHz tuner & would use the same basic construction. I'd have one box to do all things . . . well, kinda, but that's another story.

So what's the deal with type 6 material for the 3.5-7MHz? Since it works I'm willing to let it work & accept miracles. And how about type 1 material for the 160m tuner, if I decide to go that way? Since the type 2 material is supposed to work down to 500 kHz, I'm easily convinced that I don't need the type 1 material. Which gets into more questions.

Maybe this is why I like messing with antenna tuners & antennas. At least there I can see the arcing capacitor plates & the smoking coil forms & figure that I need more wire in the air. Or less . . . which is another story.

73

Nils

Nils R. Bull Young :: La Estancia de los Guajolotes Sonrientes
WB8IJN &c :: The Tagalong Press :: email to nilsbull@juno.com
"In my day we had to FIGHT to have email! Every day was a struggle!"
-- Comrade Sergei Nikolaievich

McTovarishov

Get the Internet just the way you want it.

Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Thu, 17 Jun 1999 08:50:56 -0600
From: Larry East <w1hue@amsat.org>
To: qrp-1@lehigh.edu
Subject: [42970] RE: Reflex Receiver Circuits
Message-ID: <3.0.3.32.19990617085056.00952070@axp1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>From a recent post by Ian C. Purdie:

>A short time ago following the topic of regens, a post was made on
>reflex receiver circuits. This got me thinking because I remembered
>them. Anyway I did some research and the end result is I have put up a
>short page discussing the principles of reflex design together with
>block diagram and a schematic.

>
> <http://www.integritynet.com.au/~purdic/reflex.htm>
>

Check it out -- a very interesting and, on the surface at least, simple
concept! However, Ian points out one "little" problem:

>
>Other significant difficulties are a somewhat higher amount of "playthrough"
>(i.e. signal output with volume control at zero setting), and a minimum
>volume effect. The latter is the occurrence of minimum volume at a volume
>control setting slightly higher than zero. At this point, the signal is
>distorted due to the balancing out of the fundamentals from the normal
>signal and the out-of-phase playthrough component.

It appears to me that this implies some sort of "secondary" detection is
occurring in the IF amplifier -- or is it something else? It also seems to
me that the diode detector could be easily replaced by a product detector
and that signal feed back to the IF amp. Am I missing something here?

The curious wanta know...

72, Larry W1HUE/7

Date: Thu, 17 Jun 1999 10:03:24 -0500
From: Kyle Lusk <klusk@bhm vending.com>
To: "'qrp-1'" <qrp-1@Lehigh.Edu>

Subject: [42971] what to do
Message-ID: <01BEB8A8.A4C764E0.klusk@bhm vending.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Which Qrp radio to get 80 or 40 meter ? I have never been on the air using cw, is the MFJ radios any good. This radio will probably have to do me for a while.
tnx in advance
KG4BQQ kyle

Date: Thu, 17 Jun 1999 09:05:09 -0600
From: Bruce Kizerian <kizerian@ced.utah.edu>
To: qrp-l@Lehigh.EDU
Subject: [42972] Silver Micas
Message-ID: <37690EA5.7D8AF41F@ced.utah.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Been doing some quick research on capacitors. The more I read the less I know. How good are silver mica caps--depends on who you ask. When the so-called experts in the field can't agree, I will defer to the experience of my ham friends. Conclusion: use those silver micas if you can get them and are willing to pay for them. Otherwise, use NPO or COG ceramics, or.....

Dazed and confused

Bruce kk7zz

Date: Thu, 17 Jun 1999 10:14:34 +0000
From: Tim Ahrens <tahrens@hilconet.com>
To: qrp-l@lehigh.edu
Subject: [42973] FS: MFJ-249 SWR Analyzer
Message-ID: <3768CA8A.4DED2FBC@hilconet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hi Folks - Bought the 259 at HamCom, so want to peddle my 249.

Good condition, some scratches, works great

\$135 Includes domestic Priority Mail

Please reply direct

Thanks,

Tim W5FN

Date: Thu, 17 Jun 1999 09:24:05 -0600
From: Larry East <w1hue@amsat.org>
To: qrp-l@lehigh.edu
Cc: art@hawaii.rr.com
Subject: [42974] Re: OHR WM-2 Wattmeter
Message-ID: <3.0.3.32.19990617092405.00949480@axp1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>From a recent post by Art Neilson, KH7PZ:

>

>Hey, thanks for the great info!!! Here's what I did...

>I set my scope probe to x10 and clipped it to the positive pin on the
>bnc connector on the inside of my sw40+ and grounded the probe to the
>chassis. I set my keyer for handkey and held down a paddle. Found
>a nice sine wave at 10uS per div and set volts per div at 1. Read
>3.4V peak to peak so * 10 (cause of the x10 probe attenuation)
>that's 34V peak to peak.

>

A question comes immediately to mind: How good is the scope's calibration?
In particular, there is a potential problem when using a probe to look at
RF signals: A small error in the "compensation" of the probe can result
in a fairly large (~20%) error in the measured peak RF voltage. You can
check this out by tweaking the RF probe's compensation adjustment (if it
has one) while looking at a steady RF signal. Another potential problem
is the frequency response of the scope/probe: the "bandwidth" should be
at least 5X the frequency of interest -- which means at least 35MHz when
looking at 7MHz or 70MHz for 14MHz signals. (I'm probably being overly
conservative here... so don't nit-pick it, OK?)

In general, it's best NOT to use a probe when making RF voltage measurements.

Here's what I'd do: Put a "T" connector on the scope input and run coax from the rig to the "T" and then to the power meter. It's also best to attach the dummy load as close as possible to the power meter -- the one's Radio Shack used to sell with a built-in UHF connector are ideal.

A DVM with a good RF probe (you can build one, if necessary) would probably give a more accurate reading.

Here's some of my observations on power meters in general:

1. Accuracy can vary greatly across the scale.
2. Accuracy is usually best on the upper 2/3 of the scale.
3. It is difficult to interpolate readings due to the non-linear nature of the scale. Therefore it is best to adjust the transmitter's output to an exact reading on one of the meters when making comparisons.

72, Larry W1HUE/7

Date: Thu, 17 Jun 1999 11:27:05 EDT
From: SKIPNC90@aol.com
To: rerobins@email.uncc.edu, qrp-1@lehigh.edu
Subject: [42975] Re: Six Meter QRPers
Message-ID: <7adb5235.249a6dc9@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Rick KF4AR writes:

<< My first QRP rig was a Heathkit Sixer that I got for Christmas in 1963 from my parents. >>

I still have a Lafayette HA-750 6 meter AM rig here that I use. I also had an Icom 502 I think it was called, 1 1/2 watts out on CW/SSB. I worked most of the northeast and midwest with it using the pull-up antenna and internal batteries. I should never have sold that one.

73, Skip NC90

Date: Thu, 17 Jun 1999 11:27:02 EDT
From: SKIPNC90@aol.com
To: adams@ticnet.com, qrp-1@lehigh.edu

Subject: [42976] Re: Crystal Oscillator Quiz Time
Message-ID: <3a9177d7.249a6dc6@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 6/16/99 7:17:31 PM Eastern Daylight Time, adams@ticnet.com writes:

<< OK, in order to further the value of a crystal tester which does nothing more than tell you whether the crystal will oscillate in the circuit that makes up the tester how about adding an relative output circuit with a cheap 250uA or 500uA meter that gives a relative indication of the activity of the crystal?

>>

Hi Chuck and gang,

I have a tube oscillator with the meter in circuit just for testing crystal activity. I used it for crystal grinding and hook up a frequency counter to the output too.

73, Skip NC90

Date: Thu, 17 Jun 1999 11:37:27 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [42977] FOLDED MONOPOLE
Message-ID: <b79e2669.249a7037@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The FOLDED MONOPOLE first discussed by capt Lee in his book VERTICAL ANTENNA HANDBOOK and also recently in the ARRL HANDBOOK seems to be a great concept. The folding brings the impedance up to 50 ohms if the proper driven and return size elements are used.

QUESTION 1: If this design appears to offer a good impedance for matching 50 ohms and therefore improving the efficiency (antenna to ground resistance) why is this not utilized more?

QUESTION 2: In the design information in the ARRL HANDBOOK, it shows a driven

element sometimes in the vicinity of 3 inch diameter. Rather than using pipe or tubing, can you just run two wires intermittently shorted as a substitute for this larger diameter pipe/tubing?

FOR EXAMPLE: For 40M and a 50 ohm match the height is 29.8 ft, the main element is 0.5in and the folded driven element is 3.5 in with a spacing between the two of 6 inches. Rather than tubing using a shorted piece of 300 ohm tv twin lead for the 0.5in and using two wires with 3.5 inch spacing shorted out for the driven element makes it affordable.

Alan KB7MBI

Date: Thu, 17 Jun 1999 11:50:19 -0400
From: "INTO,N" <ninto1@neo.rr.com>
To: <w1hue@amsat.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42978] Re: OHR WM-2 Wattmeter
Message-ID: <001301beb8d9\$1a3a6080\$e2f65d18@oemcomputer.neo.lrun.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Don't forget to take into account the bandwidth of the scope. For example, a 15MHz scope means that it's down 3 dB at 15. You would think you were at 5W, when you are really at ten...!

If you want to see the error at any point within the scope's BW, it can be approximated by plotting a single pole RC rolloff. Not that all vertical amplifiers are exactly like that, but it's a good first approximation. Haven't got it in front of me but voltage amplitude error is like 10% at 50% of BW. Remember, that error is squared when it comes to power...

Norm Into - K8NI

-----Original Message-----
From: Larry East <w1hue@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Thursday, June 17, 1999 11:32 AM
Subject: Re: OHR WM-2 Wattmeter

>>From a recent post by Art Neilson, KH7PZ:

>>

>>Hey, thanks for the great info!!! Here's what I did...

>>I set my scope probe to x10 and clipped it to the positive pin on the

>>bnc connector on the inside of my sw40+ and grounded the probe to the
>>chassis. I set my keyer for handkey and held down a paddle. Found
>>a nice sine wave at 10uS per div and set volts per div at 1. Read
>>3.4V peak to peak so * 10 (cause of the x10 probe attenuation)
>>that's 34V peak to peak.
>>
>A question comes immediately to mind: How good is the scope's calibration?
>In particular, there is a potential problem when using a probe to look at
>RF signals: A small error in the "compensation" of the probe can result
>in a fairly large (~20%) error in the measured peak RF voltage. You can
>check this out by tweaking the RF probe's compensation adjustment (if it
>has one) while looking at a steady RF signal. Another potential problem
>is the frequency response of the scope/probe: the "bandwidth" should be
>at least 5X the frequency of interest -- which means at least 35MHz when
>looking at 7MHz or 70MHz for 14MHz signals. (I'm probably being overly
>conservative here... so don't nit-pick it, OK?)
>
>In general, it's best NOT to use a probe when making RF voltage
measurements.
>Here's what I'd do: Put a "T" connector on the scope input and run coax
from
>the rig to the "T" and then to the power meter. It's also best to attach
the
>dummy load as close as possible to the power meter -- the one's Radio Shack
>used to sell with a built-in UHF connector are ideal.
>
>A DVM with a good RF probe (you can build one, if necessary) would probably
>give a more accurate reading.
>
>Here's some of my observations on power meters in general:
>
>1. Accuracy can vary greatly across the scale.
>2. Accuracy is usually best on the upper 2/3 of the scale.
>3. It is difficult to interpolate readings due to the non-linear nature
> of the scale. Therefore it is best to adjust the transmitter's output
> to an exact reading on one of the meters when making comparisons.
>
>72, Larry W1HUE/7
>
>

Date: Thu, 17 Jun 1999 08:46:54 -0700
From: Jerry Haigwood <w5jh@swlink.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: ScQRPions Reflector <azqrp@extremezone.com>

Subject: [42979] Re: Next stop: Ft. Tuthill
Message-ID: <3769186E.45354BEF@swlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello Gang,

As Paul Harden pointed out in his recent post, Ft Tuthill is all about having FUN in a relaxed atmosphere. As part of that fun, the ScQRPions have organized a home brew contest for the Ft Tuthill QRP Symposium. Paul Harden is one of the Judges for this contest. So here is your opportunity of a life time - have your home brew projects judged by the best - Paul Harden, Chuck Adams, and Doug Hendricks. It just doesn't get any better than that. We have building categories which cover almost any thing you have built. There are NO entry fees. Each winner in each category will receive a great prize. We will also award a "Best of Show" prize. Certificates will be awarded to all winners. BTW, we added a special category for ScQRPion Brian W5VB0. The "ugliest thing you have ever built that works" category. Paul Harden tells me some of his stuff would also be winners in this category. For some reason I don't believe him! Time's a wastin' so get that 2n2/40 done and bring it to Ft Tuthill. Hey Chuck, that regen is going to be done, isn't it?

73, Jerry W5JH

Contest rules are shown below.

Home Brew Contest Rules

These are the rules for the QRP Home Brew Contest to be held at Ft Tuthill during the QRP symposium on Saturday, July 24, 1999.

1. The object of this contest is to entice you to home brew a QRP project. You may submit up to 10 home brew projects for judging. If you have more, get your spouse to submit some of them. :-) Home brew is defined as something you built. It could include such items as a kit, your original design, someone else's design, from scratch, etc. Your entry has to be submitted - you just can't bring a picture of it. :-)

2. Submit your QRP entries to the contest administrator, Jerry Haigwood, W5JH, and select one of four categories:

- A. Keys/Keyers/Paddles/Accessories/test equipment.
- B. XCVRs/XMITTRs/RCVRs
- C. Regen Receivers
- D. Ugliest thing you built that works

3. The entry cost is FREE!

4. Prizes will be awarded to the winner of each category and a Grand Prize will be awarded for the "Best of Show" entry. Certificates for the winners will be mailed out within 2 weeks after the show. Results will be posted to QRP-L for bragging rights.

5. Three judges will be used to determine the winners. Their decision is FINAL.

6. Persons submitting an entry should be prepared to discuss the design and construction of their entry. (Show and Tell)

7. Entries should be documented. Items such as a schematic, parts lists, assembly drawings, etc. will factor into the overall evaluation score. The more detailed, the better, but don't let the lack of documentation stop you from entering a cool project you did ten years ago!

8. You do not need to be present to submit your entry but we really want to see you at Ft Tuthill! If you will be submitting an entry by mail or UPS, contact Jerry Haigwood, W5JH by email: w5jh@arrl.net

Judging Criteria:

The entries will be judged using the following factors.

1. Is it QRP related?

2. Is it something useful for QRP radioing?

3. Is it something built recently? (Higher points awarded for recent construction)

4. Is the design solid?

5. Difficulty of the design.

6. Is the construction of good quality? (category 4 excepted!)

7. Does the unit do what it was built to do?

8. Is the unit well documented?

9. Any other criteria that the judges feel are important.

Date: Thu, 17 Jun 1999 11:53:46 -0400
From: "INT0,N" <ninto1@neo.rr.com>
To: <wd8civ@att.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [42980] Re: Dummy Load Night
Message-ID: <002001beb8d9\$95314240\$e2f65d18@oemcomputer.neo.lrun.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

How about a three foot clip lead on a Tee at the load? Divide score by two.

Norm - K8NI

-----Original Message-----
From: wd8civ@att.net <wd8civ@att.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Thursday, June 17, 1999 9:56 AM
Subject: Re: Dummy Load Night

>
>> How about organizing a Dummy Load Night when we all get on
>> 7040 running 5w into our dummy loads, and just see how many
>> contacts can be made?
>> I'd suggest a few contest rules be used to level the playing field.
>> For example:
>> 1. Each contact made with dummy load for transmit only - 5 points
>> 2. Each contact made with dummy load for receive and transmit - 10 points
>> 3. Home made dummy load - total score X 1.3
>
>Tom,
>
>Are you sure about this? I could make a dummy load that would
>radiate better than some CB antennas.
>
>> 4. If using a dummy load integral to antenna tuner, take total score and
>> divide
>> by 5 (to compensate for probable capacitive coupling to the real antenna
>> !)

>> 5. If dummy load weighs more than 8 oz., take total score and divide by 2
>> (the
>> dummy load should be 'QRP' too - no oil cooled Cantennas!)
>
>I've found Cantennas to be pretty well shielded. How about we drain the
oil?
>
>> 6. Take total score and divide it by the length (in feet) of coax used to
>> connect to the
>> dummy load.
>
>Well, then I'll just claim an infinite score right now, 'cause
>I'll hook a 51 ohm resistor across my final. Zero length of
>coax. (Do the math on your computer. Divide by Zero is a major error.)
>
>> 7. Take total score and subtract the number of feet the dummy load is
>> above ground level (or add the number of feet below ground level).
>
>Despite my nit-picking, I think it sounds like a fun idea! Kind of a
>tweak on the nose of the "serious" testers, not to mention the hams
>who -should- be using a Cantenna.
>
>Do you think the exchange should include the equipment?
>
>RIG HR IS XTAL WITH 9V BATT. ANT IS TOASTER. UR 219.
>
>Dave, WD8CIV
>

Date: Thu, 17 Jun 1999 11:51:51 -0400
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [42981] Dummy Load Nite
Message-ID: <19990617.115343.-318633.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang:

The concept of a dummy load nite seems to be a fine thing, a fun thing,
a simple thing....
Personally I have found it to be fairly easy to find a loaded dummy or
two on forty meters... hee hee

HOWEVER what's with all these rules etc... put 5 watts into a dummy load and go.... All dummies are not equal u say! well any dummy kneauxs that, I say...

For the first time.... why not just say 5 watts into a dummy load and go... then whoever gets to analize the results can catagorize the results based on a detailed description of the person's "loaded dummy". Armed with this information... some standards could be set... or things left as they are...

personally I would like to see what someone could do with a cantenna on top of a hundred foot tower... or a light bulb in a large reflector on top of a tower.... or.....

Let's have a nite where we all use a "dummy load" and "5 watts" and see what happens.... nobody has to win or lose.... and I'll bet everybody has fun...

Some of the "dummy loads" should prove to be quite interesting.... However, not being addicted to "contesting" might be a minority position here... so ... anyhow ... I say it's a good idea and would be even better with the "contesting" aspect left out and simply specifying 5 watts and a dummy load...

joel kella
in maine
thinking of loading my pet crawfish

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Fri, 18 Jun 1999 01:55:33 +1000
From: "Ian C. Purdie" <purdic@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [42982] Shearer
Message-ID: <37691A74.1508068F@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

"Ian C. Purdie" wrote:

> sergio wrote:
>
> > i stopped down at shearing this morning..
> >
> > wanted to let the shearing lady know that i wanted to , , , , , , ,
>
> Send her down to Australia. Does she use a wide comb or what <g>

>
> Sorry
>
> Ian

For the uninformed, I omitted to mention that was an Australian sheep shearing joke.

CUL

Ian

Date: Thu, 17 Jun 1999 09:05:33 -0700
From: Tayloe Dan-P26412 <Dan_Tayloe-P26412@email.mot.com>
To: "'Gerard.Lagier@cnes.fr'" <Gerard.Lagier@cnes.fr>, "'qrpl'" <qrp-l@Lehigh.EDU>
Message-ID: <87568F78ABDCD211A0AC0008C707718B319478@az10exm03.sat.mot.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

>I am building a HAM receiver using a DDS AD9850 and software controlled
>with a PIC 16F84.
>The 1st IF uses an homebrew 6MHz 5 poles Xtal filter, the second IF,
>a serial pair of Collins mechanical filter @ 500kHz.

>I will be very glad to exchange information, tips...about this project.

>G=E9rard

Gerard:

It is good to hear from others that like to build their own rigs!

I have built many home brew rigs, and also once tried using 6 MHz as the first IF. I quickly found that it was not a good choice. The BBC was parked on 6 MHz with an exceptionally strong signal, and was getting by my front end filtering and first mixer. The BBC was every where! Not good.....

I have used 4 MHz IFs with good success. The main problem with that selection is a strong spur at the bottom of the band (7.0, 14.0, 21.0, etc). 4.915 MHz might be a better choice. I believe that the Sierra uses this.

- Dan Tayloe, N7VE

Date: Thu, 17 Jun 1999 09:06:51 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Bruce Kizerian <kizerian@ced.utah.edu>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [42984] Re: Silver Micas
Message-ID: <Pine.BSI.3.96.990617085651.25712B-1000000@usr04.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 17 Jun 1999, Bruce Kizerian wrote:

> Been doing some quick research on capacitors. The more I
> read the less I know. How good are silver mica caps--depends
> on who you ask. When the so-called experts in the field
> can't agree, I will defer to the experience of my ham
> friends. Conclusion: use those silver micas if you can get
> them and are willing to pay for them. Otherwise, use NPO or
> COG ceramics, or.....
>

A lot depends upon the frequency range you're working in.
At lower frequencies, metalized polyester is the capacitor of
choice. For most RF work, the silvered mica has the best overall
performance. At UHF and above, we generally use porcelain where
tolerance and Q are deciding design considerations.

Most ceramic capacitors tend to be microphonic, and are
generally seen as being suitable for bypass and coupling. Myself and
others have had experiences using ceramic chip capacitors in the loop
filters for synthesizers, only to discover that under vibration they
generate spurious signals. For these applications I will use the
metalized polyester, with the Thompson BF series being the source of
choice. Panasonic makes good metalized polyester capacitors as well, but
the Thompson BF's have the smallest footprint. They are available from
Mouser, and the Panasonics can be bought from Digi-Key.

Chris

```

      ,-----,
      /   What's all this   \
     / extinct stuff, anyhow? \
      \ -----,-----'
      _ | /
oo\
( __ )\
      _

```

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240

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Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Thu, 17 Jun 1999 09:08:49 -0700
From: Allan G Taylor <k7gt@qsl.net>
To: qrp-l@lehigh.edu
Subject: [42985] Treasure or Trash : old transistors from the archives
Message-ID: <37691D91.7F23@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In cleaning out a parts cabinet (20 years of dust!) I came across some transistors for defunct projects and misc. I have no idea why I may have originally acquired these gems, but if they are useful to you, make me an offer (ridiculous is OK) if you can use a specific item.

2N4888 - 1 , 2N404 - 1, 2N5138 - 1, 2N23569 - 2, 2N6055 - 1,

LM358N - 1 (yeah, I know... its NOT a transistor!)

I also have a misc collection of 1979 vintage CMOS logic chips from an "Electronics for Physics" course. I didn't inventory them.

Allan K7GT

Oh... I may have found a home for most of the high value SM caps, in trade for some low value SMS. WIN-WIN!

--

```

|
/|
/ |

```


Allan Taylor K7GT | /Z |\ FISTS 3222 ARS 228
k7gt@qsl.net /| /599| \ DXCC and WAS 40/cw
Pleasanton CA CM97aq /_|/_|_|_|_|_ \ http://www.qsl.net/k7gt
...QRO, QRP, or barefoot..... [\--=====~/

~~~~~

-----  
Date: Thu, 17 Jun 1999 10:08:33 -0600  
From: Larry East <w1hue@amsat.org>  
To: qrp-l@lehigh.edu  
Subject: [42986] Outa Here!  
Message-ID: <3.0.3.32.19990617100833.0095b8c0@axp1>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I'll be doing a little R&R for the next couple of weeks with only intermittent email access after about noon today -- so I ain't ignoring you if I don't answer email. :-)

72, Larry W1HUE/7

-----  
Date: Thu, 17 Jun 1999 11:19:04 -0500  
From: "George T. Baker" <w5yr@swbell.net>  
To: hamjoel@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [42987] Re: Dummy Load Nite  
Message-ID: <37691FF8.E44E27BC@swbell.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

As always, Joel brings up a lot of memories! ;^)

Back in the late 40's, the "hot technology" for a dummy load was a 100-watt light bulb clipped to the swinging link output in place of the twinlead going to the antenna. Tune for maximum light!

You would be amazed at how well those things got out. So, don't sell that concept short when we have our Dummy Load Night. Besides, if you put the bulb on top of the tower, just think what the neighbors will do!

I once had a 260 ft longwire antenna with a 4-ft fluorescent bulb taped to the wire at the "far" end. Used it as a tuning indicator, not a dummy

load. Again, tune for maximum light. It would blink off and on with CW or flicker with AM. Sure gave folks a second look to see that strange flickering light up there in the sky!

"UFOs? - We don't need no steenking UFOs!"

72/73, George            AMA 98452            R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!  
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County  
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

hamjoel@juno.com wrote:

>  
> Hi Gang:  
>  
>        The concept of a dummy load nite seems to be a fine thing, a fun thing,  
> a simple thing....  
  
>        personally I would like to see what someone could do with a cantenna on  
> top of a hundred foot tower... or a light bulb in a large reflector on  
> top of a tower.... or.....  
>

-----  
Date: Thu, 17 Jun 1999 11:37:57 -0500  
From: "George T. Baker" <w5yr@swbell.net>  
To: art@hawaii.rr.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [42988] Re: OHR WM-2 Wattmeter  
Message-ID: <37692465.6ECE1FDB@swbell.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Of course, we can always take solace in the fact that each of our watches will always be precisely, exactly correct not once but twice each day - provided only that we do not wind them or let them run! ;^)

72/73, George            AMA 98452            R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!  
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County  
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

"Art Neilson, KH7PZ" wrote:

>

> Yes of course it is endless, it is our scientific nature which  
> drives us to quantify, measure and try to bring order to the  
> universe of which we are a part.

-----

Date: Thu, 17 Jun 1999 11:40:51 -0500  
From: "George T. Baker" <w5yr@swbell.net>  
To: w1hue@amsat.org  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [42989] Re: Reflex Receiver Circuits  
Message-ID: <37692513.BCB47540@swbell.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Just remember, guys: keep those poles out of the left-half-plane!

72/73, George            AMA 98452            R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!  
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County  
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

-----

Date: Thu, 17 Jun 1999 11:57:27 -0500  
From: "Chuck Adams K5FO" <adams@ticnet.com>  
To: SKIPNC90@aol.com  
Cc: qrp-l@lehigh.edu  
Subject: [42990] Re: Crystal Oscillator Quiz Time  
Message-ID: <E10ue06-00044o-00@pop3.ticnet.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

Skip et.al.,

Thanks for the posting on the tube type oscillator.  
We've become so accustomed to solid state after many  
years of fighting the change in the '60s..... :-)

Brings to mind the following points. Remember that back in the earlier days, i.e. pre-transistor and the FT-243 holder days, that it took more crystal current to make them work. As a result of this I'd be very very careful about using a tube crystal oscillator with the new form factors. The circuit designs are probably done with high currents in mind.

Ed Hare, W1RFI, posted that he was getting a lot of drift from the Tuna Tin II. I haven't looked at the circuit lately but my guess would be that there is a significant crystal current, thus heating the crystal and causing it to drift. That is if the crystals are not in a FT-243 type crystal holder. Just a guess --- sight unseen.

Again, Skip, thanks for the post.

FYI

Chuck Adams K5FO adams@ticnet.com <http://www.qsl.net/k5fo/>

-----  
Date: Thu, 17 Jun 1999 13:17:50 -0400  
From: DNT1@chrysler.com  
To: tomm@xata.com  
Cc: qrp-l@Lehigh.EDU  
Subject: [42991] Re: Dummy Load Night  
Message-ID: <85256793.005F04DC.00@Ingodd03.notes.chrysler.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-Disposition: inline

Sound like a good time to get the old "light bulb" dummy load out, it fits the rules quite well (although I doubt that it's in the spirit of them!). Light weight, homebrew, better rx than most, little or no coax (just run it right off the back of the rig!), highly portable, replacement parts available pretty much anywhere and a shack light to boot (during tx anyway, who needs to read what they've copied until they're replying to it anyway?)

That's the problem with rules, they force creativity on the masses...

72/73,

Don T.

AI4CW

QRP-L#1670

EM64pw

-----  
Date: Thu, 17 Jun 1999 13:28:21 -0400  
From: Ken Newman <N2CQ@citnet.com>  
To: QRP-L@lehigh.edu, njqrp@njqrp.org  
Subject: [42992] Fireball Run Logs: Last call  
Message-ID: <3.0.6.32.19990617132821.0083ce50@mail.citnet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Fireball Run Group,

Any others who worked someone during the Fireball Run I and didn't send in the log? One QSO is plenty to send the results in to me. Doesn't have to be fancy at all, just an e-mail showing who was logged. I'll complete the summary and scoring if desired.

Hope to have another Fireball Run to have all the kits completed and on the air in a couple of months.

What is a Fireball for those who are wondering? Check the website below and look for the FB40 kit. 40 meter xmtr for \$10. Sound good?

-----  
72/73 de  
Ken Newman - N2CQ  
Woodbury, NJ

N2CQ@ARRL.NET

~~~NJ QRP Club Home Page ~~~  
<http://www.NJQRP.org>

~~~Club Callsign~~~  
WQ2RP

-----  
Date: Thu, 17 Jun 1999 12:35:40 -0500  
From: "Chuck Adams K5FO" <adams@ticnet.com>  
To: qrp-l@lehigh.edu  
Subject: [42993] Spice Models, Voltage Calibration, and uPC1651G  
Message-ID: <E10uez3-0008QG-00@pop3.ticnet.com>  
MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

## SPICE MODELS and LIBRARIES

The question came up in several emails, so let me answer it globally. Yes, I will take SPICE models for parts that you do not find in the list on

<http://www.qsl.net/k5fo/models.htm>

More than a decade ago I was going to get all the TI SPICE models from their site, but alas they all disappeared before I got them. These are the models that you saw in some of the older SPICE books in their appendices.

So my goal is to make an attempt to accumulate as many as possible and hold on to them for modeling purposes. You can't have too many parts... :-) I have all these on the QRP-L Archives CD under the spice directory. Hopefully they will be kept and passed on from generation to generation until the last part in the last junk box is soldered or plugged into the last HB rig or reg receiver ever built by the human race.

## MEASUREMENTS

The thread got started by the posting seemingly wondering whether anyone and especially me can measure 0.950W accurately. As a start of a comeback to that thread I will do the following.

For the July gathering in Tuthill, the August gathering in Austin, and for the October gathering at Pacificon in Concord CA I will do the following. I will bring with me a voltage standard. You bring your DVM/DVMs with fresh batteries and I will measure the voltage and tell you how far off you meter is. I have two voltage standards and one is portable and the other when moved requires 30 days to recalibrate. So guess which one I'll be bringing.... :-) Yep, the portable one.

If some one will publish the article, I'll write up how to do this, but it takes too much graphics for email and some mathematics to go through the gory details. If I have to write it up, I'll do it

for publication only. EOD.

uPC1651G

I tell you that this group has the largest set of technical minds and expertise in the entire world!!! None other than Steve Weber sent me email pointing to

<http://www.cel.com/>

and therein I found the .pdf datasheets for the NEC Silicon Microwave Broadband Amplifier MMICs. Go to the site and do a search for the part number above and you will find one hit and then look at the .pdf and/or print it for your files. This is a pretty nice part. The cost for the above is \$1.49 locally from Tanner Electronics. I won't act as a go between, but if you see me at one of the above meets and want me to pick up a few for you, drop me a line. I don't know how long they will be available, but will make every attempt to get you one for you workbench, if you promise to use it. [www.cel.com](http://www.cel.com) is for California Eastern Laboratories

Again, FYI

Chuck Adams K5FO [adams@ticnet.com](mailto:adams@ticnet.com) <http://www.qsl.net/k5fo/>

-----  
Date: Thu, 17 Jun 1999 12:41:04 +0000  
From: Tim Ahrens <[tahrens@hilconet.com](mailto:tahrens@hilconet.com)>  
To: [k7gt@qsl.net](mailto:k7gt@qsl.net), [qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)  
Subject: [42994] Re: Treasure or Trash : old transistors from the archives  
Message-ID: <3768ECE0.A2AAE3CD@hilconet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Allan - your box of treasures bring back lots of memories... that 2N4888... Used one in the keying circuit of an old RTL keyer from Digi-Key!! Not sure if it's the same place, but their address was Thief River Falls, so was probably the first endeavors of a small company! Seems it was in the early 70's that I got this small keyer.

Just a bit of nostalgia!!

cu

Tim W5FN

-----  
Date: Thu, 17 Jun 1999 12:45:13 +0000  
From: Tim Ahrens <tahrens@hilconet.com>  
To: qrp-l@lehigh.edu  
Subject: [42995] Re:FS:MFJ-249  
Message-ID: <3768EDD9.42E87568@hilconet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Thanks to all who responded (even with questions)!  
The unit is spoken for.

Tim W5FN

-----  
Date: Thu, 17 Jun 1999 13:13:32 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: qrp-l@lehigh.edu  
Subject: [42996] Re: Next stop: Ft. Tuthill  
Message-ID: <199906171757.NAA19184@moose.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

Boy, I sure would like to go, but it's sooo far away :-(

Anyone got some frequent flyer miles they can give me? Trade for a QRP kit? No ? Well, it was worth a shot, hi. I'm just afraid if I did go, I might not want to leave :-)

Too bad, as I've been working on the perfect building contest entry..a 20 through 10M CW/SSB rig. If it works half as good as it's starting to look, it might just win....

72,



Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----  
Date: Thu, 17 Jun 1999 14:15:14 -0400 (EDT)  
From: Chris Cartwright Sr <ccart@phideaux.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [42997] Re: Tuna Tin 2  
Message-ID: <Pine.LNX.4.04.9906171044120.17101-100000@dns.phideaux.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 16 Jun 1999, Tom Bowman wrote:

> Just worked Ed, W1RFI, using the TT-2 at 500mw.  
> Tom, WA3REY

FB Tom, Heard you work Ed and then listened to K0EVZ try to get in there. I had to get out of the truck for a while so I'm not sure if Doc ever got Ed to hear him. About 0100Z I heard Ed call a 3x3 CQ three times, and just couldn't help myself. Had to call and thank him for the beautiful QSL certificate he's sent me for out 9-Jun-99 QSO. This one is definitley going on the wall, as soon as I get done showing it off to people!

So, Ed have you had a 2x TT2 QSO yet? It was fun to work you again as N3XRV/M/QRP even if it is too long:) I vote we \*all\* jump in there and try to give W1RF1 the first (??) TT2/QRPP/WAS, whatsay guys?

72

-- Chris Cartwright, Technical Engineer | ccart@phideaux.com --  
-- N3XRV ARRL-VE Norcal Zombie #163 | Gaithersburg, MD FM19je --  
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

-----  
Date: Thu, 17 Jun 1999 14:03:08 -0400  
From: Scott Howell <whowell@hq.nasa.gov>  
To: qrp-l@lehigh.edu  
Subject: [42998] MFJ headset  
Message-ID: <3.0.5.32.19990617140308.007d35e0@mail.hq.nasa.gov>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

ay folks, has anyone tried the new MFJ 392 communications headset? I read they have separate tone and volume controls for each ear. Am curious how they compare to lets say a set of Heil's. Of course one costs \$20 and the other about \$100 or so.

Any thoughts?

tnx es 72 de Scott/n3byy

-----  
Date: Thu, 17 Jun 1999 14:07:34 EDT  
From: Robsparks@aol.com  
To: qrp-l@lehigh.edu  
Subject: [42999] AR QRP Net results  
Message-ID: <8cf0b78c.249a9366@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

The AR-QRP Net last night had 7 QNIs. We had some new new QNIs which is great! Aside from minor technical problems from the NCS (keyer went haywire) and some QRM late in the net, all went fine. The net began at 0030Z and ended at 0105Z. Thanks to those who participated! Here are the stations that checked in:

|        |                                                              |
|--------|--------------------------------------------------------------|
| KF4KSM | Mac                                                          |
| NU4V?? | Pete Pete - I just barely could copy you. Is the call right? |
| KB5NJD | John                                                         |
| N5ID   | Ken        We lost you!                                      |
| K9UT   | Jerry                                                        |
| AB8DF  | Ed                                                           |
| N5IB   | Jim SRI Jim, I had you confused with Ken!                    |

The NCS was Bob AB5ZD , using the AR QRP Club call NQ5RP, QTH Alexandria LA, running 5 watts to a G5RV up about 25 feet in pecan trees. Orientation of the ant wire is NNW to SSE. Following is a list of Arkansas QRP Club nets:

|                 |       |           |
|-----------------|-------|-----------|
| Monday Night    | 0030Z | 3.560 mhz |
| Wednesday Night | 0030Z | 7.042 mhz |

Non-members are welcome (and encouraged) to QNI!

72,

Bob AB5ZD

PS Special note: We need replacement/fill-in NCS ops for the nets With summer vacation upon us, others are needed to keep the net going. If you can carry on a QSO in CW, you can handle the job of NCS! Please email me and let me know if you could fill next week (Wednesday nite 7/23) as NCS for the 40m AR net. I will be on the road then. Thanks!

-----  
Date: Thu, 17 Jun 1999 13:16:46 -0500  
From: Jeff Davis <jeff@jehosophat.com>  
To: QRP-L List <qrp-l@lehigh.edu>  
Subject: [43000] Timing is Everything  
Message-ID: <19990617131645.A6304@jehosophat.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

I leave the house to run up to the store and am gone exactly 8 minutes.

And in that time the FedEx guy comes to the door with my new OHR-500. Since no one was home he left a sticker saying he will attempt to deliver it again tomorrow.....

No sense buying a lotto ticket today,,, its just not my day.

--  
72 de Jeff, N9AVG  
QRP-L #1640  
QRP ARCI #9756  
NorCal

-----  
Date: Thu, 17 Jun 1999 08:17:45 -1000  
From: "Art Neilson, KH7PZ" <art@hawaii.rr.com>  
To: Larry East <w1hue@amsat.org>  
Cc: qrp-l@lehigh.edu  
Subject: [43001] Re: OHR WM-2 Wattmeter  
Message-ID: <3.0.6.32.19990617081745.0088e770@pop-server>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 09:24 AM 6/17/99 -0600, you wrote:  
>From a recent post by Art Neilson, KH7PZ:  
>>  
>>Hey, thanks for the great info!!! Here's what I did...

>>I set my scope probe to x10 and clipped it to the positive pin on the  
>>bnc connector on the inside of my sw40+ and grounded the probe to the  
>>chassis. I set my keyer for handkey and held down a paddle. Found  
>>a nice sine wave at 10uS per div and set volts per div at 1. Read  
>>3.4V peak to peak so \* 10 (cause of the x10 probe attenuation)  
>>that's 34V peak to peak.

>>

>A question comes immediately to mind: How good is the scope's calibration?  
>In particular, there is a potential problem when using a probe to look at  
>RF signals: A small error in the "compensation" of the probe can result  
>in a fairly large (~20%) error in the measured peak RF voltage. You can  
>check this out by tweaking the RF probe's compensation adjustment (if it  
>has one) while looking at a steady RF signal. Another potential problem  
>is the frequency response of the scope/probe: the "bandwidth" should be  
>at least 5X the frequency of interest -- which means at least 35MHz when  
>looking at 7MHz or 70MHz for 14MHz signals. (I'm probably being overly  
>conservative here... so don't nit-pick it, OK?)

Yes the scope is 100Mhz bandwidth, a Tek 7603 mainframe with 2 7A26  
vertical amps and 1 7B53A dual time base. Nice scope, I love it.  
Got it from Lew Coppes who calibrated it prior to shipment. I also  
went through all of the user calibrations per the Tek manual.

>

>In general, it's best NOT to use a probe when making RF voltage measurements.  
>Here's what I'd do: Put a "T" connector on the scope input and run coax from  
>the rig to the "T" and then to the power meter. It's also best to attach the  
>dummy load as close as possible to the power meter -- the one's Radio Shack  
>used to sell with a built-in UHF connector are ideal.

I suppose at these very low power levels that's OK but I wouldn't want to  
chance blowing the input board in the vertical amp? I do have a Bird RF  
sampler for HF which would be perfect for this. It goes inline between  
the rig and the load and has a bnc connector for connection to a scope  
or counter or whatever.

>

>A DVM with a good RF probe (you can build one, if necessary) would probably  
>give a more accurate reading.

Right, I definitely want to build one and Glen Leinweber has a great  
instructions on building one as well as other neat stuff on his web page

<http://epic.mcmaster.ca/~elmer101>

>

>Here's some of my observations on power meters in general:

>  
>1. Accuracy can vary greatly across the scale.  
>2. Accuracy is usually best on the upper 2/3 of the scale.  
>3. It is difficult to interpolate readings due to the non-linear nature  
> of the scale. Therefore it is best to adjust the transmitter's output  
> to an exact reading on one of the meters when making comparisons.

Righto, and that's why George Baker W5YR is making comments such as

"I can only repeat the old Chinese proverb which says that a man wearing  
two watches never knows what time it is . . . ;^)"

:^) :^) :^)

I appreciate everyone's comments and I've learned a bit about meters  
and testing and watches etc. because of this.

THANKS!!

>  
>72, Larry W1HUE/7  
>  
>

    /  )    \_/\_  It is a capital mistake to theorise before one has data.  
  /--/  \_\_  /    Insensibly one begins to twist facts to suit theories,  
/  (\_/  (\_<\_\_  Instead of theories to suit facts.  
                    -- Sherlock Holmes, "A Scandal in Bohemia"

Arthur W. Neilson III, KH7PZ  
Bank of Hawaii Tech Support  
art@hawaii.rr.com

-----  
Date: Thu, 17 Jun 1999 12:28:37 -0600  
From: Niel Skousen <nskousen@scientech.com>  
To: qrp-l@lehigh.edu  
Subject: [43002] IC737 CW filters  
Message-ID: <4.1.19990617122714.009d8700@if.scientech.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

The IC-737 that I'm selling has not got any narrow CW filters... Anybody  
have any spare narrow CW filters for the Icom 737 ??

TNX Niel

PS: radio is still available...

-----  
Niel Skousen: Sr.Eng, SCIENTECH.SPG/CFG, NUSI WA7SSA  
208.525.3742, 524.9229 FAX 529.4721 Idaho Falls ID  
nskousen@scientech.com DN33wm . . . -z  
-----

Date: Thu, 17 Jun 1999 13:34:43 -0500  
From: "Chuck Carpenter" <w5usj@globeco.net>  
To: SKIPNC90@aol.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [43003] Re: Six Meter QRPers  
Message-ID: <3.0.2.32.19990617133443.006b4108@bosshog.globeco.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Skip et al,

Don't you just hate yourself when you do that. I had a Clegg 99 once upon a time. I modified it with a BFO and used in on AM and CW. Sure wish I'd kept that little classic. One other 6 rig I have now is a Mizuho hand held that runs about 300 mW on SSB and CW. I'm going to be trying it out the next strong opening we get.

72/73 Chuck - W5USJ - EM22cv - Rains County - Point, TX  
-----

Date: Thu, 17 Jun 1999 11:47:03 PDT  
From: Dan Hanson KQ6YI <kq6yi@hotmail.com>  
To: qrp-1@Lehigh.EDU  
Subject: [43004] Seeking Comments on the MFJ-9420  
Message-ID: <19990617184703.23467.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Hey guys/gals!

I'd like to get some feedback regarding the MFJ-9420 w/ the CW adapter. I work a lot of SSB, so CW only kits are out. I plan on using the rig for backpacking, so current drain and weight are major factors. I'm also open to suggestions regarding other single band (CW/SSB) that meet the above requirements. Thanks!

72 Dan Hanson KQ6YI@hotmail.com Previously: KD6RXZ Fullerton, CA

-----  
Get Free Email and Do More On The Web. Visit <http://www.msn.com>  
-----

Date: Thu, 17 Jun 1999 12:02:44 -0700  
From: David J Adams <adamsclan@netgate.net>  
To: QRP <qrp-1@lehigh.edu>  
Subject: [43005] I got the pox!  
Message-ID: <37694654.C5AC6469@netgate.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Well, even though this is the second time around for me, my daughter was kind enough to share her chicken pox with me. I'm mainly typing this to keep my fingers occupied in some other manner than scratching. I'm going just a \*little\* bit stir crazy, and I've decided I need another chair for the radio desk! On the other hand, I've managed to burn all the new cdrom orders that have come in. Of course, I haven't made it to the post office (my wife says I have no right to spread the plague), so if you placed an order in the last few days, they will be out as soon as I am!

73 de dave, n9uxu

PS - I'm on 17m mostly, feel free to swing by.....

-----  
Date: Thu, 17 Jun 1999 19:19:31 -0700  
From: "KA5T Larry Wise" <lewise@inetport.com>  
To: "qrp" <qrp-1@lehigh.edu>  
Subject: [43006] Tuna-Tin 2  
Message-ID: <199906171917.0AA29263@admin.inetport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Gang:

Has anyone actually put the Tuna-Tin 2 replica on the air?

Report in you guys and gals....

Larry KA5T  
Georgetown Texas

-----  
Date: Thu, 17 Jun 1999 15:25:10 -0400  
From: "dor" <elbc@pivot.net>  
To: <ARDUJENSKI@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [43007] Re: FOLDED MONOPOLE  
Message-ID: <004a01beb8f7\$1e9ea960\$ec1199d0@mine1>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: <ARDUJENSKI@aol.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Thursday, June 17, 1999 11:37 AM  
Subject: FOLDED MONOPOLE

> The FOLDED MONOPOLE first discussed by capt Lee in his book VERTICAL  
ANTENNA  
> HANDBOOK and also recently in the ARRL HANDBOOK seems to be a great  
concept.  
> The folding brings the impedance up to 50 ohms if the proper driven and  
> return size elements are used.  
>  
> QUESTION 1: If this design appears to offer a good impedance for matching  
50  
> ohms and therefore improving the efficiency (antenna to ground resistance)  
> why is this not utilized more?  
>  
> QUESTION 2: In the design information in the ARRL HANDBOOK, it shows a  
driven  
> element sometimes in the vicinity of 3 inch diameter. Rather than using



pipe  
> or tubing, can you just run two wires intermittently shorted as a  
substitute  
> for this larger diameter pipe/tubing?  
>  
> FOR EXAMPLE: For 40M and a 50 ohm match the height is 29.8 ft, the main  
> element is 0.5in and the folded driven element is 3.5 in with a spacing  
> between the two of 6 inches. Rather than tubing using a shorted piece of  
300  
> ohm tv twin lead for the 0.5in and using two wires with 3.5 inch spacing  
> shorted out for the driven element makes it affordable.  
>  
> Alan KB7MBI  
>

Hi Allen,

There is a misconception about the folded mono pole, That is that because  
the impedance is raise somewhat by the folding process. that there is  
little need for good ground radial system, this in practice is simply not  
true.

There is very little to be gained by using the folded system over the  
correctly fed single element vertical.

this antenna has been called many things over the years.. and I've tried a  
number of them .. folded marconi, el toro, etc, etc. The plan truth is there  
simply is not enough of a rise in efficency to warrent the extra work it  
takes to make the beast..

my two cents work,, have fun ,  
73 dave kc1di

-----  
Date: Thu, 17 Jun 1999 15:47:48 -0400  
From: sergio <sruiz@bright.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [43008] code practice..  
Message-ID: <376950E4.2FA71EC4@bright.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

everyone probably already knows this, but i found out that the code practice that w1aw does on the air is now available as a realaudio file on their site..

you can find it at:

<http://www.arrl.org/w1aw/morse.html>

i think it's really keen, since i am never home when it is on the air, and i hardly ever get to hear it..

now, i have one more opportunity to work on code..

hey! i have a question...

i used to be on 40 alot, and i noticed that alot of people you could barely read.. i mean, it seemed like they were just dribbling a basketball on their key... i used to dread getting my cq's answered by these kind of guys, just cuz i couldn't make anything out..

does this still go on?

i think one of the biggest problems is that they don't use any spacing between their letters and words..

maybe there is this one big five minute long letter or prosign i haven't learned yet, and they were just sending me that..

i dunno..

--

---

peace,

sergio

<http://www.bright.net/~sruiz>

"the village buzz"

-----  
Date: Thu, 17 Jun 1999 16:25:43 -0400 (EDT)  
From: James Skalski <jskalski@localnet.com>  
To: KA5T Larry Wise <lewise@inetport.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [43009] Re: Tuna-Tin 2  
Message-ID:  
<Pine.LNX.4.04.9906171617580.6850-100000@valhalla.valhalla.buffalo.edu>

MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I was just dusting mine off as I was reading my mail. My tin is a little beat up and I just cleaned off a can from some cat food. I thought it was time to refurbish the old TT-2

It seems like it is lighter probably aluminum. I was thinking of pairing the rig up with a pair of R-390A's. How do you think that would look? Maybe using a drow key relay for the antenna change over relay.

I built mine when the article came out. I had built other qrp rigs in the early seventies. I remember one that was vxo control and had a built in keyer that was actuated by two push buttons mounted on the top of the case. I think I got the pcb from mfj. No plated through holes here. There is nothing worse than soldering the last few parts on a board and having the traces lifting off the board :-( Less heat is sometimes better.

73,

Jim n2go

On Thu, 17 Jun 1999, KA5T Larry Wise wrote:

> Gang:  
>  
> Has anyone actually put the Tuna-Tin 2 replica on the air?  
>  
> Report in you guys and gals....  
>  
> Larry KA5T  
> Georgetown Texas  
>  
>  
>

-----  
Date: Thu, 17 Jun 1999 16:45:22 -0700  
From: "K. Babcock, N8WVD" <casey@mufn.org>  
To: <qrp-1@lehigh.edu>  
Subject: [43010] Thank you  
Message-ID: <000701beb91b\$7b957300\$02da6cc6@mufn.mufn.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

thanks to all that replied to my inquiry regarding the ic-720. Your help was greatly appreciated.  
Kent, N8WVD

-----  
Date: Thu, 17 Jun 1999 16:47:43 -0400  
From: hamjoel@juno.com  
To: qrp-1@lehigh.edu  
Subject: [43011] Update W/R side by side beam  
Message-ID: <19990617.164744.-286447.0.hamjoel@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Highest one and all.... especially u-all....

well... I dropped the baton rouge (red dowell) on my north side and removed it.... I added three more elements in its place so the antenna now looks like this:

ref.....dir

driven..... driven

dir.....ref

with a dowell rod on either side pulling the antennas tight...

one going ne the other sw  
Each antenna has its own coax.... rg8u

both antennas load the same..... there seems to be some front to back ratio....from a couple of s units to about 5 s units... on some stations..... will check on this some more...

I was also able to get the antenna higher ...(betteren 35ft high) and more level.... I had to tape a small rock to the end of one dowell to get the thing to hang level.... still haven't figured that one out....

anyhow I can flick my mfj tuner switch and select the lower 47 or Europe... now I need some more feedline so I can make another 40mtr Driven element.... (used it to make the new 20mtr driver)

joel kella

in maine  
with problems

-----  
Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Thu, 17 Jun 1999 13:48:55 -0700 (PDT)  
From: Theodore Wong <wong\_th@eng.printronix.com>  
To: qrp-l@lehigh.edu  
Subject: [43012] 2N2/40 QSO  
Message-ID: <199906172048.NAA04486@taz.printronix.com>

Hello All,

Finally made that first QSO with the 2N2 rig with Lee K6DW0. He was in northern Cal and I am in southern Cal about 500 mi. away. Not great but it's a start. He gave me a 429 and I received him at 559. He said signal was very clean with no hint of chirp. Also during our 20 minute QSO, he said there was absolutely no drift at all. Great job Mr. Kortge! He was running an old Viking Ranger. How's that for diversity in this hobby. A contact between a great classic rig and a soon to be classic homebrew rig. Now to get proof to Preston (WJ2V) to get my certificate.

Regards,

Tedd AB6C0

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Date: Thu, 17 Jun 1999 16:00:08 -0500  
From: Karl.Kanalz@optelinc.com  
To: elbc@pivot.net  
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [43013] Re: FOLDED MONOPOLE  
Message-ID: <86256793.0073CD28.00@hdqsmtp01.optelinc.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-Disposition: inline

I'd have to agree with David's comments. The only thing a folded monopole will do for you is raise the feed impedance, thus (possibly) eliminating a matching network at the base of a say, "standard" quarter-wave monopole (vertical).

Nearly ANY vertical monopole antenna structure will require a ground plane for proper operation -- it doesn't matter if it's your good ol' fashioned 1/4 wave vertical, a folded monopole or whatever.... it needs a ground.

Karl K - W8TIF  
McKinney, Texas

"dor" <elbc@pivot.net> on 06/17/99 02:25:10 PM

Please respond to elbc@pivot.net

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
cc: (bcc: Karl Kanalz/hdq/Optel)

Subject: Re: FOLDED MONOPOLE

----- Original Message -----

From: <ARDUJENSKI@aol.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Thursday, June 17, 1999 11:37 AM

Subject: FOLDED MONOPOLE

> The FOLDED MONOPOLE first discussed by capt Lee in his book VERTICAL  
ANTENNA  
> HANDBOOK and also recently in the ARRL HANDBOOK seems to be a great  
concept.  
> The folding brings the impedance up to 50 ohms if the proper driven and  
> return size elements are used.  
>  
> QUESTION 1: If this design appears to offer a good impedance for matching  
50  
> ohms and therefore improving the efficiency (antenna to ground  
resistance)  
> why is this not utilized more?  
>  
> QUESTION 2: In the design information in the ARRL HANDBOOK, it shows a  
driven  
> element sometimes in the vicinity of 3 inch diameter. Rather than using

pipe

> or tubing, can you just run two wires intermittently shorted as a substitute

> for this larger diameter pipe/tubing?

>

> FOR EXAMPLE: For 40M and a 50 ohm match the height is 29.8 ft, the main element is 0.5in and the folded driven element is 3.5 in with a spacing between the two of 6 inches. Rather than tubing using a shorted piece of 300

> ohm tv twin lead for the 0.5in and using two wires with 3.5 inch spacing > shorted out for the driven element makes it affordable.

>

> Alan KB7MBI

>

Hi Allen,

There is a misconception about the folded mono pole, That is that because the impedance is raise somewhat by the folding process. that there is little need for good ground radial system, this in practice is simply not true.

There is very little to be gained by using the folded system over the correctly fed single element vertical.

this antenna has been called many things over the years.. and I've tried a number of them .. folded marconi, el toro, etc, etc. The plain truth is there

simply is not enough of a rise in efficiency to warrant the extra work it takes to make the beast..

my two cents work,, have fun ,  
73 dave kc1di

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Date: Thu, 17 Jun 1999 17:14:02 EDT

From: ARDUJENSKI@aol.com

To: Karl.Kanalz@optelinc.com, owner-qrp-l@lehigh.edu, qrp-l@lehigh.edu

Subject: [43014] Re: FOLDED MONOPOLE

Message-ID: <88d71e5d.249abf1a@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

KARL and group,

I did not intend to imply that a radial system was not necessary but rather for a given radial system, the losses would be less because of the raised antenna impedance. Also the bandwidth is broader and there appears no need for a tuner or matching network (or so the books say). Has anyone had any practical experience with these?

Alan KB7MBI

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Date: Thu, 17 Jun 1999 17:27:00 -0400  
From: "Tim Cook" <timcook@erinet.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, "[Ten Tec] - Reflector" <tentec@contesting.com>  
Subject: [43015] FS: Splitting up Triton Station  
Message-ID: <00ea01beb908\$2371f3a0\$857f5acf@timcook.erinet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I have had some interest in splitting the Triton Station up, so here are the prices. The Triton IV must sell first, before selling the rest.

Ten Tec Triton IV analog

- optional noise blanker
- optional cw filter
- super qsk
- PTO smooth/dial string doesn't sag
- 100 watts on 80m to 65watts on 10m ( I have set ALC to max 70w on 80

and 60w on 10)

- overall condition very good (a dial light is burned out) (bandswitch might be a little dirty, sometimes you need to wiggle it a little when first changing bands to make contact, only once in a while, and not all bands)

\$215 + shipping

Ten Tec Model 244 Digital Readout

- very good condition
- works excellent

\$75 + shipping



Ten Tec model 262G Power supply

- works fine
- good condition

\$80 + shipping

Ten Tec model 241 external xtal crystal oscillator

- exc condition
- never used it

\$25 + shipping

In use daily, have manuals for everything except the 241 oscillator

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Date: Thu, 17 Jun 1999 14:29:55 -0700  
From: "Kory Hamzeh" <kory@avatar.com>  
To: <qrp-1@lehigh.edu>  
Subject: [43016] K9LU Bulldog Paddle  
Message-ID: <003901beb908\$8abbe840\$14ce21c7@tomcat.avatar.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I was just killing time a couple days ago waiting for the wife to get ready and I ran across the web page for K9LU's Bulldog Paddle. It's a perfect paddle for outdoor operations. It's small, light, and cheap \$19.99. It even has suction cups on the bottom of the base. I just got mine in the mail today. I haven't tried it yet, but it feels pretty good. You'll be shocked when you see how simple in it. Check out their web page at <http://www.qth.com/k9lu/>

I'm in no way connected to K9LU yadda yadda yadda ...

Very 73s,  
Kory  
AC6RN

-----  
Date: Thu, 17 Jun 1999 16:30:45 -0500  
From: Jim Ek <JIM-EK@worldnet.att.net>  
To: "'Low Power Amateur Radio'" <qrp-1@Lehigh.EDU>

Subject: [43017] Suggestions Needed

Message-ID: <01BEB8DE.D67CB4A0@27.chicago-07.il.dial-access.att.net>

Process of studying for Novice License right now. Will probably take my exam in September.

Anyhow.....I want to learn CW as seamlessly as possible.

Would appreciate suggestions as to source and brand and model of set of Lambic paddles.

Don't know the first thing about them, other than if you want to build up CW speed Lambics are what should be used. Don't want to spend much money on them since I am just starting to getting in amateur radio. Hopefully I will be able to use them up through 20 wpm test for whichever license that is.

Have a Great Day!

Thanks,  
Jim

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Date: Thu, 17 Jun 1999 15:06:21 -0700 (PDT)  
From: Ron Stark <ku7y@dri.edu>  
To: sergio <sruiz@bright.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [43018] Re: code practice..  
Message-ID: <Pine.SOL.3.96.990617144427.5566C-1000000@vortex>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 17 Jun 1999, sergio wrote:

>  
> hey! i have a question...  
>  
> i used to be on 40 alot, and i noticed that alot of people you could  
> barely read.. i mean, it seemed like they were just dribbling a  
> basketball on their key... i used to dread getting my cq's answered by  
> these kind of guys, just cuz i couldn't make anything out..  
>  
> does this still go on?  
>  
> i think one of the biggest problems is that they don't use any spacing  
> between their letters and words..

>

Hi Sergio,

I hear some good and some poor CW on all the bands, not just 40m.

I will also venture to say that most of the worst code I hear is from hand keys. Bugs are second and then come all the other methods including keyboards. (Yes, you can sure send some bad CW with a key board.....seems that many can't type near as fast as they can tell their key boards to send!

But it's been awhile so I'll touch lightly on one of my pet peeves.

Sending skills vs. Receiving skills.

We should all strive to send good code. I have heard about some computer programs that let you send to the computer and it tries to decode it. If it can, you'r doing well.....if it can't, you need to send more! (Off the air I hope!) :-)

But every time you hear some "bad" code and you can't copy it, ask your self this: "Is the station he/she is talking to able to copy OK?". Listen to find out. If so, why can that station copy it but not you? :-)

I don't know if there is an old saying about this or not but there should be....."Anyone can copy machine code but it takes real skill to copy a lid" or something like that!

What you find, usually, is that as your CW skills improve there are fewer stations out there sending really bad code! At least you are able to copy more of them! :-)

And even things like "good code", "good spacing" and etc is open to much debate. Some like Farnsworth.....and then you get to debate what speed, spacing and etc all over again! :-)

So the bottom line is that Yes, there is a lot of poor sending out there. (And if you have ever heard me with my bug you have heard some of it!) But the challange is to continue working on your skills to get to the point where you can copy even the poorly sent code! :-)

For those of you who have heard this before, I thank you for the B/W. For those who see it for the first time I hope it will help you see things from yet another position.

OK, back in my hole....

73, Ron,        SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

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Date: Thu, 17 Jun 1999 12:23:46 -1000 (HST)  
From: "Mike W. Burger" <mike@gold.chem.hawaii.edu>  
To: qrp-l@Lehigh.edu  
Subject: [43019] Super Magnum SLV for FD  
Message-ID: <199906172223.MAA27276@gold.chem.hawaii.edu>

For Field Day, I have modified my SLV yet again. I have one of Vern's incredible 80 meter loading coils. I have used big PVC pipe to build a base extension in the past to raise my SLV to 24 feet. Last year I used the simplest of the MFJ Versatuners at the base and no loading coil, just a 24 foot wire vertical. It worked very well, but was very hard to tune on 80, it just did not want to go that low, and failed entirely to tune 160.

This year I have added another four foot extension. I found that a 1 inch PVC pipe will go through the Vern coil. You can find adapters that will fit on the ends. The 1 inch pipe through the middle strengthens the coil to take the strain of becoming part of a base extension. The 80 meter coil is now just above eye level where it is easy to adjust. It is permanently mounted into the second extension. Each extension is the same length as the collapsed SLV pole. Total height is about 28 feet and only a couple of turns are needed to get it to load on 40 meters. I am anxious to see if I can get this to tune 160, 80 meters should be duck soup. The SLV pole itself has been modified with two eyebolts at the base so where it joins the extensions it gets a set of four small "guy wires" of 1/8th inch polypropylene rope that go to small plastic tent stakes.

I use an 18 inch aluminum plate with 32 radials extending from it for a ground structure. I tune it on a given band using one of the little hand held antenna analyzers about the size of a cigarette pack. The PVC pipe has "Flat Megacable" wire on it from Radio Shack. This is two runs of 1/4 inch flat copper braid made into super zip chord. It makes a single spiral turn around the pipe to make it easy to attach with a few cable ties.

I was concerned about just gluing the Vern coil into the PVC pipe extension since it has been nicely grooved for the wire and it is so long, the 80 meter version. But slipping the 1 inch pipe through the middle and using an adapter on each end was an ideal solution. It is extremely rugged now. Two years ago I tried the 80 meter coil mounted on the SLV pole as intended, but with the extension it was too high to reach! DUHHH... Well that is what field testing is all about. This time it was carefully placed into the second extension to be easy to reach when installed. There is about six feet of heavy dual run wire below the coil and about 22 feet of wire above the coil now.

I am really looking forward to getting this installed and find out its tuning behavior and frequency range. I have tried the guy wire approach with the one extension and it works great. Last year we had the usual strong trades and near horizontal rain (well they do call it a "rain forest for a reason") much of the time. It waved happily all weekend solid as a rock. The little guy wires are really needed. The base spike is nice but with wet soft ground it can use some help.

The bundle of three, the SLV fishing pole and the two extensions, one with the 80 meter coil glued in, still make a reasonable package and the botanical park is understandably touchy about molesting trees. So complete self-supporting systems like the SLV are a real bonus.

Some pictures of previous versions on website, hope to get pictures and drawings of the extensions soon:

[www.chem.hawaii.edu/uham](http://www.chem.hawaii.edu/uham)

AH7R - Mike Burger, University of Hawaii at Manoa, Dept. of Chemistry  
HI-QRP #28 - QRP-L #1053 - FISTS #3225 - BL11ch - Honolulu County

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Date: Thu, 17 Jun 1999 17:44:31 -0500  
From: George F Franklin <w0av@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [43020] Regen RX Using Q-multiplier Principle  
Message-ID: <19990617.174432.-383437.0.w0av@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Gang

Back in about 1948 I built a regen HF RX for 80 meters from an article in CQ magazine.

It used a dual triode (I believe it was a 6SN7) and was a really outstanding performer because it utilized so-called Q-multiplying to give an apparent increase in Q by "unloading" the single tuned circuit.

Does anyone remember this circuit or has someone adapted it to solid state?

It was by far the best of very many regen receivers I have built and used.

72 de George/W0AV

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End of QRP-L Digest 1491

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